DAV-DZ110/DZ111/ DZ120/DZ120K

SERVICE MANUAL

Ver. 1.3 2006.06

US Model
Canadian Model
DAV-DZ120
AEP Model
DAV-DZ110/DZ120/DZ120K
UK Model
DAV-DZ110/DZ111
E Model
DAV-DZ120/DZ120K
Australian Model
DAV-DZ120

- DAV-DZ110/DZ111/DZ120/DZ120K are composed of following models.
  As service manuals are issued for each component model, please refer to them.

COMPONENT MODEL NAME

	DAV-DZ110	DAV-DZ111	DAV-DZ120	DAV-D120K
SUPER AUDIO CD/DVD RECEIVER	HCD-DZ110	HCD-DZ111	HCD-DZ120	HCD-DZ120K
FRONT SPEAKER	SS-TS51	SS-TS31A	SS-TS51	
SURROUND SPEAKER	SS-TS51	SS-TS31A	SS-TS51	
CENTER SPEAKER	SS-CT51	SS-CT31A	SS-CT51	
SUB WOOFER	SS-WS51	SS-WS33	SS-WS52	

- Abbreviation
  AUS : Australian Model
  AR : Argentina model
  CND : Canadian Model
  E3 : 240V AC area in E model
  E12 : 220-240V AC area in E model
  E32 : 110-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  RU : Russian model
  MX : Mexican model
  SP : Singapore model
  TW : Taiwan model

PARTS LIST

Part No.	Description	Remark
1-479-641-11	COMMANDER, STANDARD (RM-ADU003) (Including Battery Cover) (DZ110/DZ111/DZ120)	
1-479-642-11	COMMANDER, STANDARD (RM-ADU004) (Including Battery Cover) (DZ120K)	
1-501-374-11	ANTENNA, LOOP (AM) (EXCEPT DZ120K: EA)	
1-501-721-13	ANTENNA, LOOP (AM) (DZ120K: EA)	
1-501-807-12	ANTENNA (FM) (DZ120K: EA)	
1-542-670-11	MEASUREMENT MIC (MONO)	(Calibration mic: ECM-AC2)
1-751-619-23	CORD, CONNECTION (VIDEO) (YELLOW, 2.5m)	(DZ120: US, KR, RU/DZ120K: MX, ,E12, E32, AR, RU, TW)
1-751-619-43	CORD, CONNECTION (VIDEO) (YELLOW, 1.5m)	(DZ120: CND, AUS/DZ120K: E3, SP)
⚠1-770-019-61	ADAPTOR, CONVERSION PLUG (DZ120K: EA)	
1-782-981-23	CORD, CONNECTION (VIDEO) (YELLOW, 15m)	(DZ120K: EA)
1-793-184-23	CONNECTOR (F TYPE ADAPTOR) (FM)	(EXCEPT DZ120K: EA)
1-831-478-11	CORD (WITH CONNECTOR) (SPEAKER)	(RED, WHITE, GREEN, PURPLE: 5m / GRAY, BLUE: 15m)
2-639-385-01	FOOT (For subwoofer)	
2-661-555-11	MANUAL, INSTRUCTION (ENGLISH)	(DZ110/DZ111)
2-661-555-21	MANUAL, INSTRUCTION (FRENCH) (DZ110)	
2-661-555-31	MANUAL, INSTRUCTION (GERMAN) (DZ110)	
2-661-555-41	MANUAL, INSTRUCTION (DUTCH) (DZ110)	
2-661-555-51	MANUAL, INSTRUCTION (ITALIAN) (DZ110)	
2-661-555-61	MANUAL, INSTRUCTION (SPANISH) (DZ110)	
2-661-555-71	MANUAL, INSTRUCTION (SWEDISH) (DZ110)	
2-661-555-81	MANUAL, INSTRUCTION (POLISH) (DZ110)	
2-661-558-11	MANUAL, INSTRUCTION (ENGLISH) (DZ120)	
2-661-558-21	MANUAL, INSTRUCTION (FRENCH)	(DZ120: CND)
2-661-558-32	MANUAL, INSTRUCTION (RUSSIAN)	(DZ120: RU)
2-661-558-41	MANUAL, INSTRUCTION (KOREAN)	(DZ120: KR)
2-661-559-14	MANUAL, INSTRUCTION (ENGLISH)	(DZ120K: E3, SP, E12, EA, TW)
2-661-559-21	MANUAL, INSTRUCTION (FRENCH)	(DZ120K: E3, SP, EA)
2-661-559-31	MANUAL, INSTRUCTION (SPANISH)	(DZ120K: MX, SP, E32, AR)
2-661-559-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (DZ120K: SP, TW)	
2-661-559-51	MANUAL, INSTRUCTION (RUSSIAN)	(DZ120K: RU)
2-661-559-71	MANUAL, INSTRUCTION (ARABIC)	(DZ120K: E3)
2-673-858-01	06KARAOKE DISC (DZ120K: RU)	
2-675-327-71	MANUAL, INSTRUCTION (ARABIC)	(DZ120K: EA)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DVD HOME THEATRE SYSTEM

9-887-020-04
2006F16-1
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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

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REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2006.01	New
1.1	2006.03	Addition of E32 model (110-240V AC area in E model) and Argentina model for DAV-DZ120K
1.2	2006.04	Addition of Korean model for DAV-DZ120 Addition of Sasudi Arabia model, Russian model and E12 (220-240V AC area in E model) model for DAV-DZ120K
1.3	2006.06	Addition of Russian model for DAV-DZ120 Addition of Taiwan model for DAV-DZ120K

HCD-DZ110/DZ111/ DZ120/DZ120K

SERVICE MANUAL

Self Diagnosis Supported model

Ver. 1.4 2006.08

Photo : HCD-DZ110

US Model
Canadian Model
HCD-DZ120
AEP Model
HCD-DZ110/DZ120/DZ120K
UK Model
HCD-DZ110/DZ111
E Model
HCD-DZ120/DZ120K
Australian Model
HCD-DZ120

HCD-DZ110/DZ111/DZ120/DZ120K are the amplifier, DVD/CD and tuner section in DAV-DZ110/DZ111/DZ120/DZ120K.

This system incorporates with Dolby*1 Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS*2 Digital Surround System.

*1 Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories.

*2 Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

Model Name Using Similar Mechanism	HCD-DZ100
Mechanism Type	CDM85-DVBU102
Optical Pick-up Name	KHM-310CAA

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
for the US model

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
(FTC Output Power): FL/FR/LS/RS/C: 84 W/ch 3 ohm at 180 - 20,000 Hz, 0.7 % THD
SW: 80 W 3 ohm at 40 - 180 Hz, 0.7 % THD

Amplifier section

DZ110

Stereo mode (rated): 108 W + 108 W (3 ohms at 1 kHz, 1 % THD)

Surround mode (reference): RMS output power, 10 % THD
Front: 142 W + 142 W (with SS-TS51)
Center*: 142 W (with SS-CT51)
Surround*: 142 W + 142 W (with SS-TS51)
Subwoofer*: 140 W (with SS-WS51)

DZ111

Stereo mode (rated): 108 W + 108 W (3 ohms at 1 kHz, 1 % THD)

Surround mode (reference): RMS output power, 10 % THD
Front: 142 W + 142 W (with SS-TS31A)
Center*: 142 W (with SS-CT31A)
Surround*: 142 W + 142 W (with SS-TS31A)
Subwoofer*: 140 W (with SS-WS33)

DZ120

US models:

Surround mode (reference): RMS output power, 10 % THD
Front: 142 W + 142 W (with SS-TS51)
Center*: 142 W (with SS-CT51)
Surround*: 142 W + 142 W (with SS-TS51)
Subwoofer*: 140 W (with SS-WS52)

DZ120

Other models:

Stereo mode (rated): 108 W + 108 W (3 ohms at 1 kHz, 1 % THD)

Surround mode (reference): RMS output power, 10 % THD
Front: 142 W + 142 W (with SS-TS51)
Center*: 142 W (with SS-CT51)
Surround*: 142 W + 142 W (with SS-TS51)
Subwoofer*: 140 W (with SS-WS52)

DZ120K

Latin American models:

Stereo mode (rated): 100 W + 100 W (3 ohms at 1 kHz, 1 % THD)

Surround mode (reference): RMS output power, 10 % THD
Front: 133 W + 133 W (with SS-TS51)
Center*: 133 W (with SS-CT51)
Surround*: 133 W + 133 W (with SS-TS51)
Subwoofer*: 135 W (with SS-WS52)

— Continued on next page —

SUPER AUDIO CD/DVD RECEIVER

9-887-019-05
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Home Audio Division
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SONY

HCD-DZ110/DZ111/DZ120/DZ120K
Ver. 1.3

DZ120K
Mexican and other models:

Stereo mode (rated)	108 W + 108 W (3 ohms at 1 kHz, 1 % THD)
Surround mode (reference)	RMS output power, 10 % THD Front: 142 W + 142 W (with SS-TS51) Center*: 142 W (with SS-CT51) Surround*: 142 W + 142 W (with SS-TS51) Subwoofer*: 140 W (with SS-WS52)

* *Depending on the sound field settings and the source, there may be no sound output.*

DZ110/DZ111
Inputs (Analog)

LINE (AUDIO IN)	Sensitivity: 450/250 mV Impedance: 50 kilohms
Phones	Accepts low-and high-impedance headphones.
AUDIO IN	Sensitivity: 250/125 mV Impedance: 50 kilohms

DZ120
Inputs (Analog)

TV/VCR (AUDIO IN)	Sensitivity: 450/250 mV
AUDIO IN/MIC	Sensitivity: 250/125 mV

Outputs (Analog)

Phones	Accepts low-and high-impedance headphones.

DZ120K
Inputs (Analog)

TV/VCR (AUDIO IN/VIDEO IN)
Sensitivity: 450/250 mV

AUDIO IN/MIC 1/MIC
Sensitivity: AUDIO IN 250/125 mV/MIC 1 1 mv

MIC 2	Sensitivity: 1 mV

DVD system

Laser	Semiconductor laser (DVD: λ = 650 nm) (CD: λ = 790 nm) Emission duration: continuous
Signal format system	
European models:	PAL
Mexican and North American models:	NTSC
Other models:	NTSC/PAL

DZ110/DZ111
Frequency response (at 2 CH STEREO mode)

	DVD (PCM): 2 Hz to 22 kHz (±1.0 dB) CD: 2 Hz to 20 kHz (±1.0 dB)
Harmonic distortion	Less than 0.03 %

Tuner section

System	PLL quartz-locked digital synthesizer system

FM tuner section
Tuning range

North American models:	87.5 – 108.0 MHz (100 kHz step)
Other models:	87.5 – 108.0 MHz (50 kHz step)
Antenna (aerial)	FM wire antenna (aerial)
Antenna (aerial) terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section
Tuning range

North American models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Other models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,602 kHz (with the interval set at 9 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna (aerial)	AM loop antenna (aerial)
Intermediate frequency	450 kHz

Video section
European models:

Outputs	VIDEO: 1 Vp-p 75 ohms COMPONENT: Y: 1 Vp-p 75 ohms P_B/C_B, P_R/C_R: 0.7 Vp-p 75 ohms

Other models:

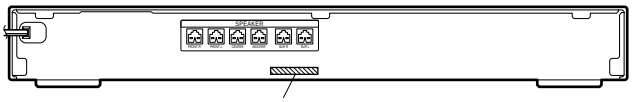
Outputs	Video: 1 Vp-p 75 ohms S video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms COMPONENT: Y: 1 Vp-p 75 ohms P_B/C_B, P_R/C_R: 0.7 Vp-p 75 ohms

General
Power requirements
North American and Mexican models:

	120 V AC, 60 Hz
Taiwan model :	120 V AC, 50/60Hz
Latin American model :	110 - 240 V AC, 50/60Hz
Other models:	220 - 240 V AC, 50/60 Hz
Power consumption	On: 150 W Standby: 0.3 W (at the Power Saving Mode)
Dimensions (approx.)	430 × 55 × 360 mm (17 × 2 1/4 × 14 1/4 inches) (w/h/d) incl. projecting parts
Mass (approx.)	3.8 kg

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
– Rear Panel –



Parts No.

Model	Part No.
DZ110 : AEP, UK models	2-653-933-0□
DZ111 : UK model	2-653-933-1□
DZ120 : AUS, RU models DZ120K : SP, E12, E32, AR, KR, TW models	2-653-933-2□
DZ120 : US, CND models/ DZ120K : MX model	2-653-933-3□
DZ120K : E3 model	2-653-933-5□
DZ120K : RU model	2-661-239-2□
DZ120K : EA model	2-661-239-3□

- Abbreviation
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  E32 : 110-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

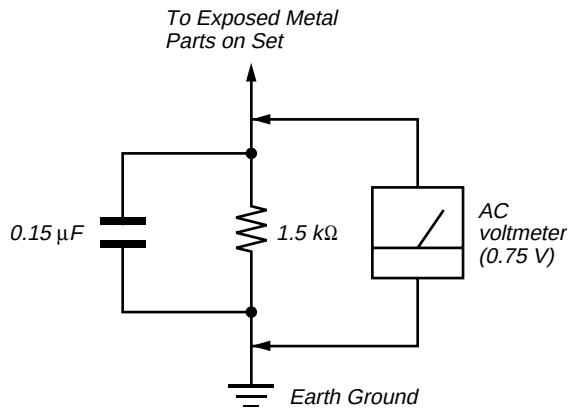

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. This marking is located on the bottom exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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SECTION 1
SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

DISC TRAY LOCK

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the I/⏻ button to turn the set on.
2. Press the FUNCTION button to set DVD function.
3. Insert a disc.
4. Press the ■ button and the ⏏ button simultaneously for five seconds.
5. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press the ■ button and the ⏏ button simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note: When “LOCKED” is displayed, the tray lock is not released by turning power on/off with the I/⏻ button.

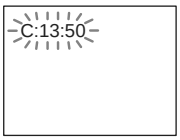
Note on MAIN board replacement

New part of EEP ROM (IC1103) on the MAIN board cannot be used. Therefore, if the mounted MAIN board (A-1144-739-A, etc.) is replaced, exchange new EEP ROM (IC1103) with that used before the replacement.

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the screen and the front panel display. In this case, check the following table.



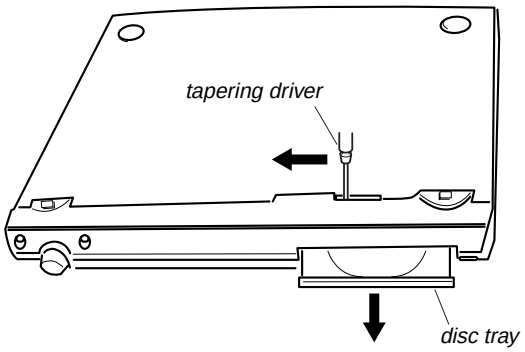
First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡Clean the disc with a soft cloth
C 31	The disc is not inserted correctly. ➡Restart the system, then re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When displaying the version number on the screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.

HOW TO OPEN THE DISC TABLE WHEN POWER SWITCH TURNS OFF

Insert a tapering driver into the aperture of the unit bottom, and slide it in the direction of the arrow.

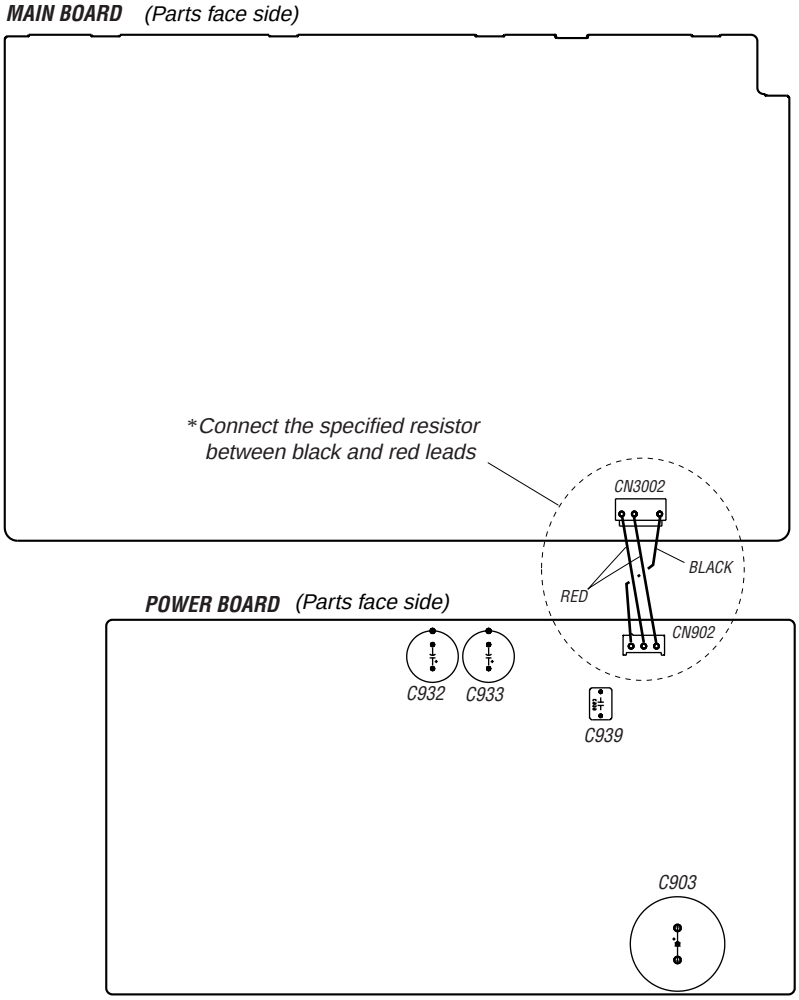


Discharge the charged electricity in capacitors to prevent electric shock as follows

When disassembling the machine, be sure to discharge the charged electricity in the following capacitors.
Use a resistor of 800 ohms, 2 Watts for discharging the following capacitors.

POWER board
C903 : 600V
C932, C933, C939, CN902 : 30V

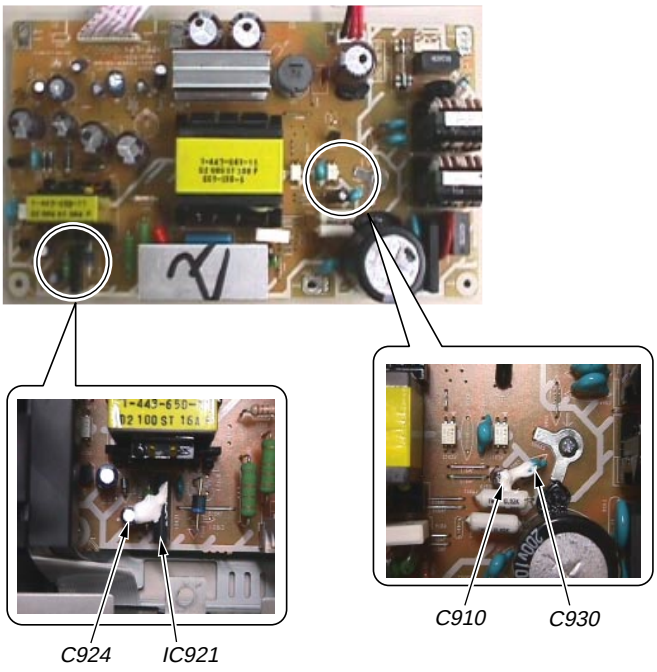
MAIN board
CN3002 : 30 V



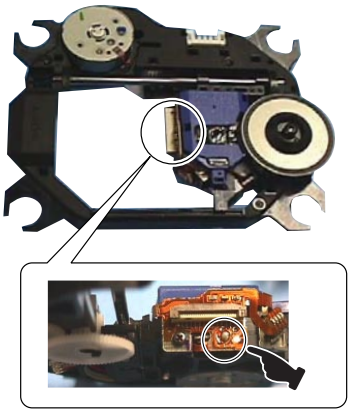
Fix the capacitors with adhesive agent as follows

Fixing the capacitors with adhesive agent is required by the safety regulation.
Be sure to fix the capacitors with adhesive agent when part or circuit board is replaced.

POWER BOARD



PRECAUTION WHEN INSTALLING A NEW OP UNIT / PRECAUTION BEFOR UNSOLDERING THE STATIC ELECTRICITY PREVENTION SOLDER BRIDGE

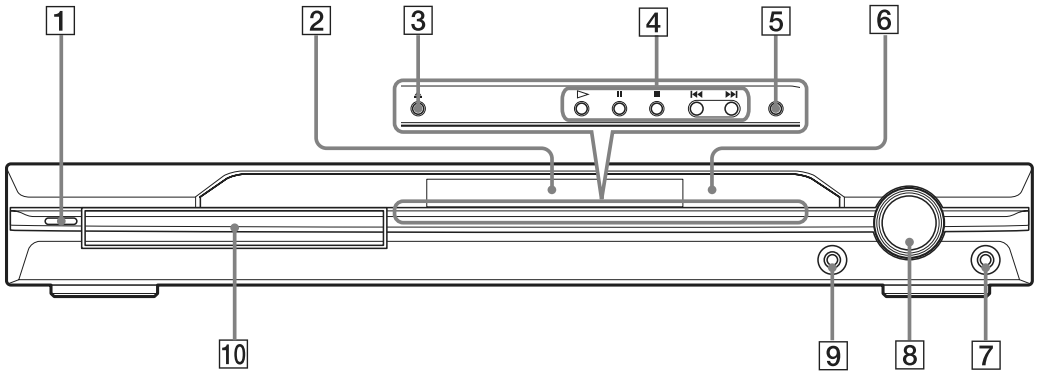


When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering. Remove the static electricity prevention solder bridge by unsoldering after the flexible printed circuit board has already been connected.
(Do not remove nor unsolder the solder bridge as long as the OP unit is kept standalone.)

SECTION 2
GENERAL

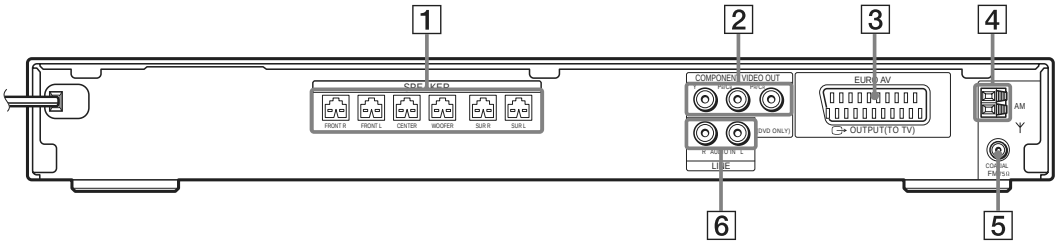
This section is extracted from instruction manual.

Front panel



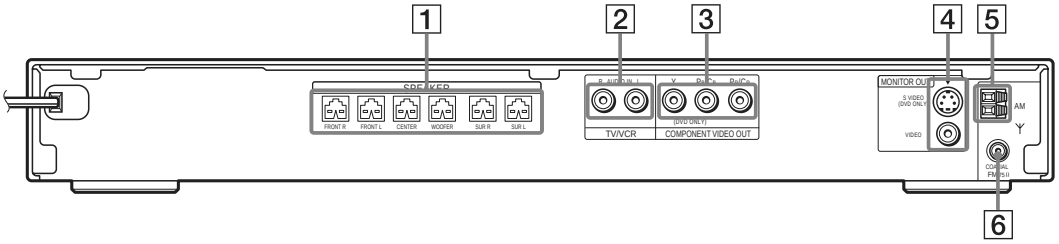
1 **I/⏻ (on/standby) (23)**
2 **Front panel display (83)**
3 **⏏ (open/close) (23)**
4 **Disc operation (23)**
5 **FUNCTION (23)**
6 **(remote sensor) (8)**
7 **PHONES jack (23)**
MIC 2 jack (DZ120K)
8 **VOLUME control (23)**
9 **AUDIO IN jack (15, 24)**
AUDIO IN/A.CAL MIC jack (DZ120)
AUDIO IN/MIC 1/A.CAL MIC jack (DZ120K)
10 **Disc tray (23)**

DZ110/DZ111
Rear panel



1 **SPEAKER jacks (9)**
2 **COMPONENT VIDEO OUT jacks (19)**
3 **EURO AV ⇨ OUTPUT (TO TV) jack (9, 19)**
4 **AM terminal (9)**
5 **COAXIAL FM 75Ω jack (9)**
6 **LINE (AUDIO IN R/L) jacks (22)**

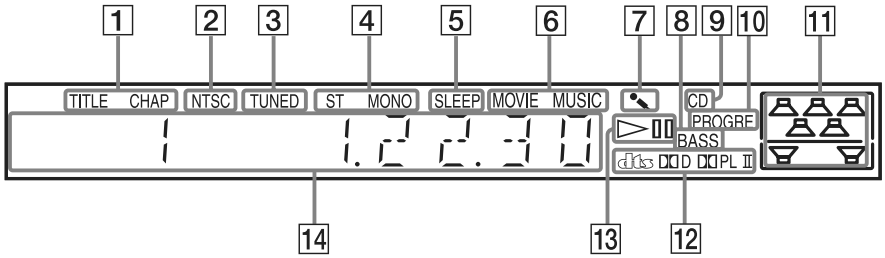
DZ120/DZ120K
Rear panel



1 **SPEAKER jacks (10)**
2 **TV/VCR (AUDIO IN R/L) jacks (23)**
3 **COMPONENT VIDEO OUT jacks (20)**
4 **MONITOR OUT (S VIDEO/VIDEO) jacks (20)**
5 **AM terminal (10)**
6 **COAXIAL FM 75Ω jack (10)**

Front panel display

About the indications in the front panel display



1. **Lights up when the time information of a title or chapter appears in the front panel display. (DVD only) (46)**
2. **Lights up when the color system is set to NTSC. (Asian and Australian models only) (17)**
3. **Lights up when a station is received. (Radio only) (59)**
4. **Monaural/Stereo effect (Radio only) (59)**
5. **Lights up when the sleep timer is set. (66)**
6. **Lights up when the music or movie mode is selected. (Except for JPEG) (33)**
7. **Lights up when the karaoke mode is on. (DZ120K) (62)**
8. **Lights up when the DYNAMIC BASS is selected. (66)**
9. **Lights up when CD is loaded.**
10. **Lights up when the system outputs progressive signals (DVD function only). (26)**
11. **Indicates the selected [SPEAKER FORMATION]. (71)**
12. **Current surround format (Except for JPEG)**
13. **Playing status (DVD function only)**
14. **Displays system’s status such as chapter, title, or track number, time information, radio frequency, playing status, sound field, etc.**

Remote control
DZ110/DZ111/DZ120

ALPHABETICAL ORDER

A – O

AMP MENU 25 (17, 24, 54, 56, 88)
ANGLE 5 (41)
AUDIO 4 (36)
CLEAR 34 (30, 54, 64)
D.TUNING 24 (51)
DISC SKIP* 18
DISPLAY 3 (39, 52)
DYNAMIC BASS 23 (55)
ENTER 13 (15, 17, 24, 30, 51, 54, 57)
FUNCTION 22 (20, 23, 24, 31, 51, 60, 72)
MENU 26 (36, 51)
MOVIE/MUSIC 17 (26)
MUTING 7 (23)
Number buttons** 15 (30, 51, 54, 57)

P – Z

PICTURE NAVI 6 (31, 54)
PRESET +/– 28 32 (51)
PROGRESSIVE 35 (20)
SLEEP 19 (56)
SOUND FIELD 16 (27)
SUBTITLE 24 (42)
THEATRE SYNC 20 (54)
TOP MENU 14 (36)
TUNING +/– 10 12 (51)
TV 30 (54)
TV CH +/– 21 (54)
TV VOL +/– 36 (54)
TV/VIDEO 2 (54)
VOLUME +/–** 8 (23, 51, 70)

BUTTON DESCRIPTIONS

I/⏻ (on/standby) 1 (15, 17, 23, 31, 51)
TV I/⏻ (on/standby) 37 (54)
←/↑/↓/→ 13(15, 17, 24, 30, 51, 54, 57)
←•/•→ REPLAY/ ADVANCE 9 (23)
⏮/⏭ 32 28 (23)
◀◀/▶▶ 12 10 (29)
◄▮/▮► SLOW 12 10 (29)
▷ (play)** 31 (23, 31, 58)
◄II/II► STEP 9 (29)
■ (stop) 29 (23, 31, 57)
▮▮ (pause) 11 (23)
▭ DISPLAY 27 (16, 30, 57, 84)
↩ RETURN 33 (31)
-/-- 34 (54)

DZ120K

ALPHABETICAL ORDER

A – O

AMP MENU 25 (22, 32, 61, 67, 103)
ANGLE 5 (48)
AUDIO 4 (43)
CLEAR 34 (37, 59, 61, 76)
D.TUNING 24 (59)
DISPLAY 3 (46, 60)
DYNAMIC BASS 23 (66)
ECHO 18 (63)
ENTER 13 (19, 22, 32, 37, 58, 68)
FUNCTION 22 (26, 30, 31, 38, 58, 71)
KARAOKE MODE 37 (62)
KARAOKE PON 2 (64)
KEYCON #/b 21 (64)
MENU 26 (43, 58)
MIC VOL +/– 36 (63)
MOVIE/MUSIC 17 (33)
MUTING 7 (30)
Number buttons** 15 (37, 59, 61, 68)

P – Z

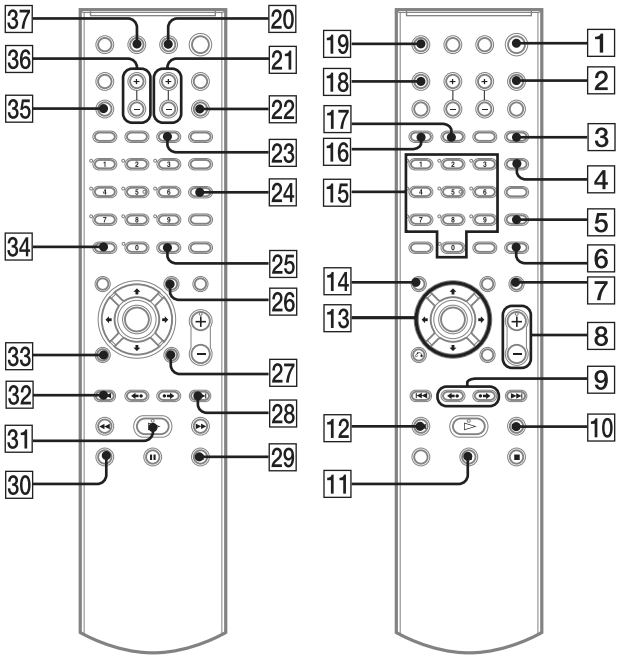
PICTURE NAVI 6 (38, 61)
PRESET +/– 28 32 (59)
PROGRESSIVE 35 (26)
SLEEP 19 (66)
SOUND FIELD 16 (34)
SUBTITLE 24 (49)
THEATRE SYNC 20 (62)
TOP MENU 14 (43)
TUNING +/– 10 12 (58)
TV 30 (61)
TV CH +/– 28 32 (61)
TV VOL +/–** 8 (61)
TV/VIDEO 19 (61)
VOLUME +/–** 8 (30, 59, 81)

BUTTON DESCRIPTIONS

I/⏻ (on/standby) 1 (19, 22, 30, 38, 59)
TV I/⏻ (on/standby) 1 (61)
←/↑/↓/→ 13(19, 22, 32, 37, 58, 68)
←•/•→ REPLAY/ ADVANCE 9 (30)
⏮/⏭ 32 28 (30)
◀◀/▶▶ 12 10 (36)
◄▮/▮► SLOW 12 10 (36)
▷ (play)** 31 (30, 38, 69)
◄II/II► STEP 9 (36)
■ (stop) 29 (30, 38, 68)
▮▮ (pause) 11 (30)
▭ DISPLAY 27 (20, 37, 68, 98)
↩ RETURN 33 (38)
-/-- 34 (61)

* The DISC SKIP button is not available for this model.

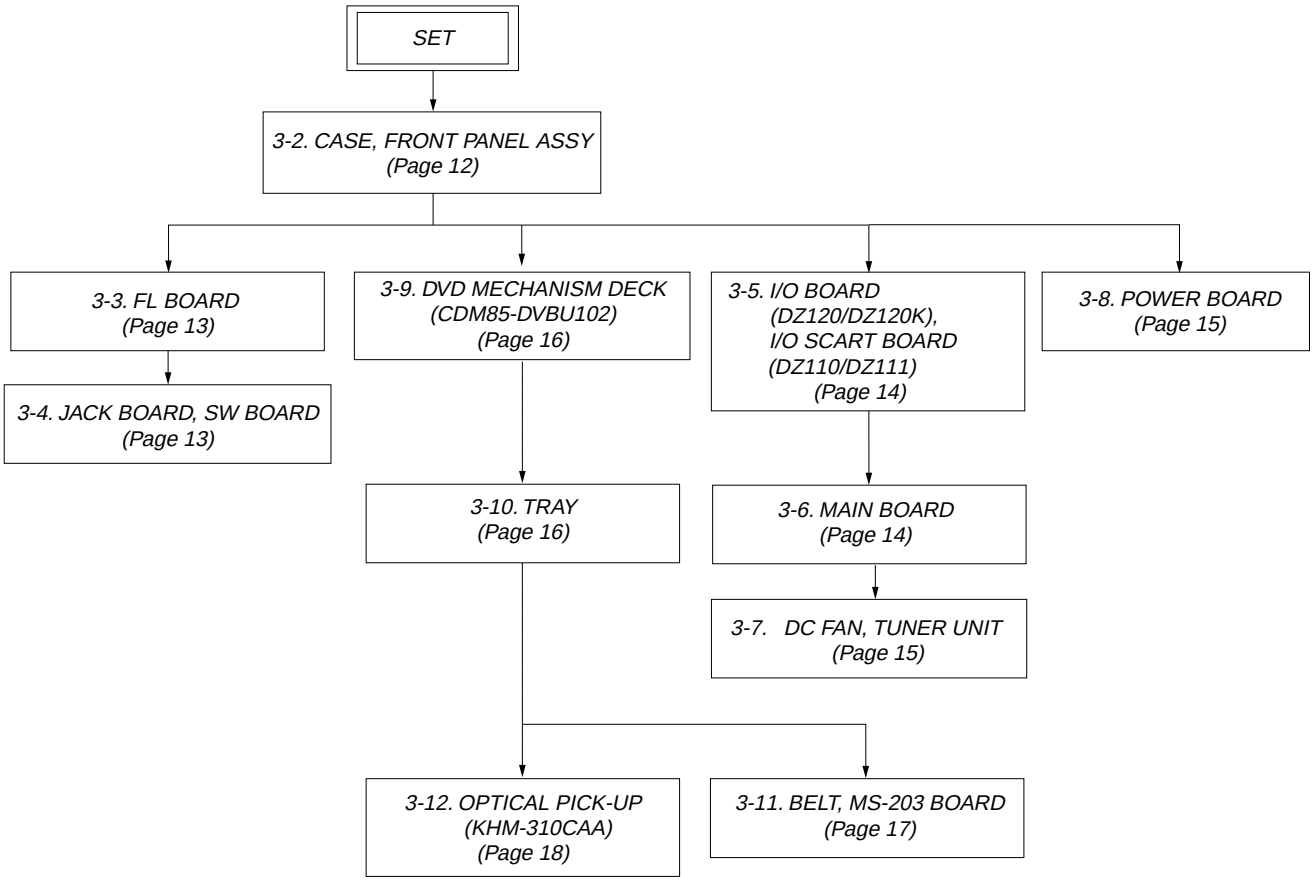
** The ▷, number 5, and VOLUME + buttons have tactile dots. Use the tactile dots as references when operating the system.



SECTION 3
DISASSEMBLY

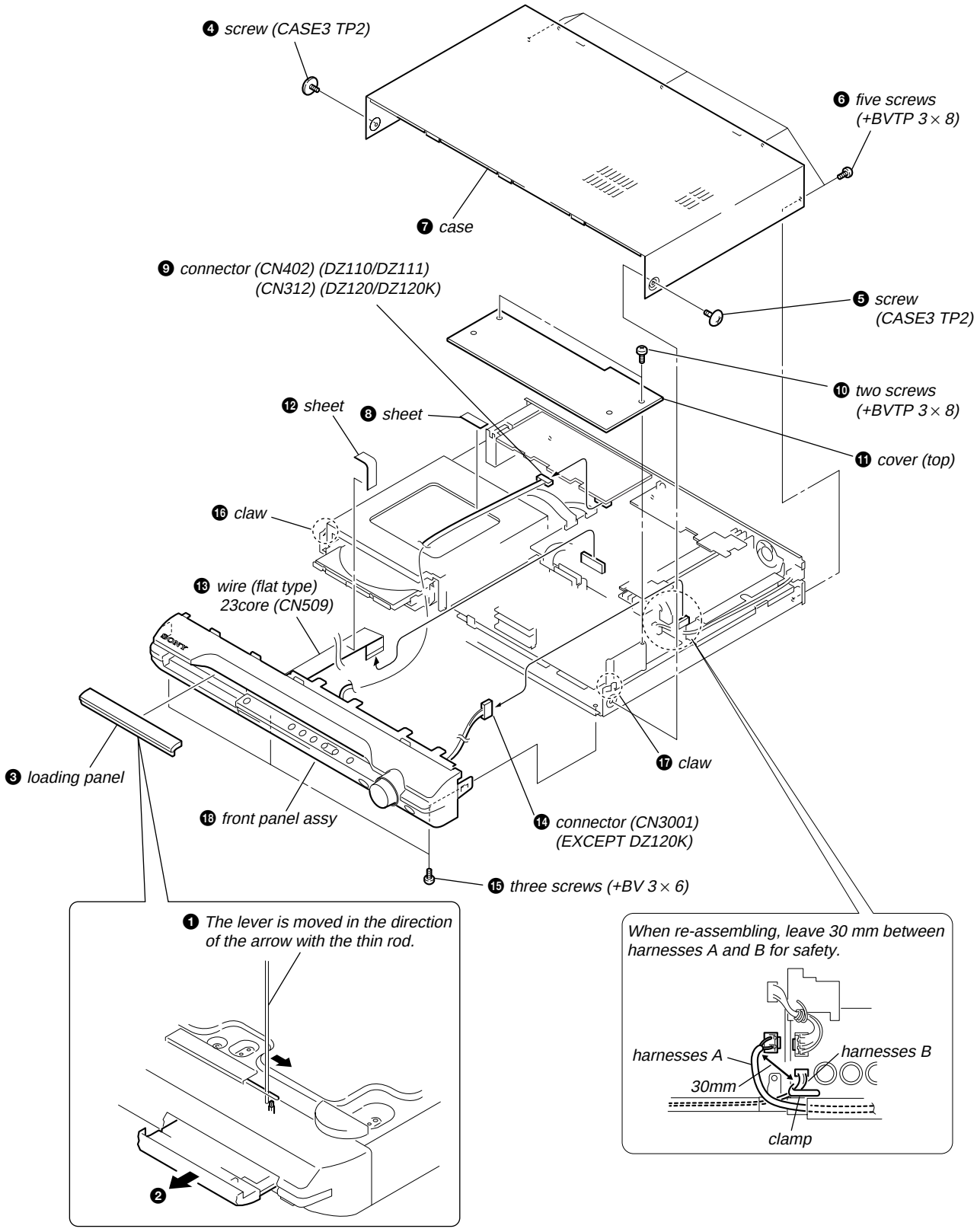
3-1. DISASSEMBLY FLOW

- This set can be disassembled in the order shown below.

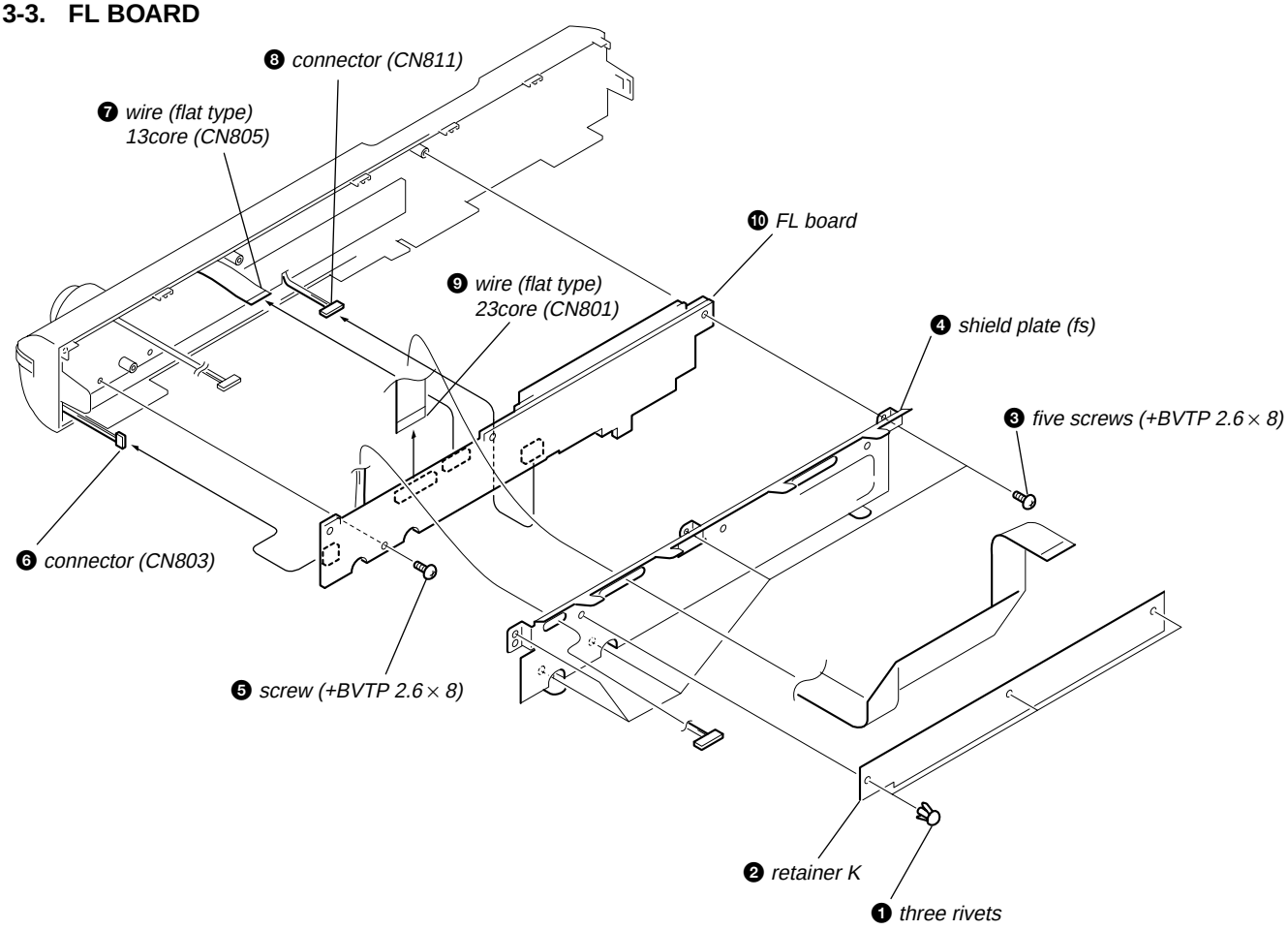


Note: Follow the disassembly procedure in the numerical order given.

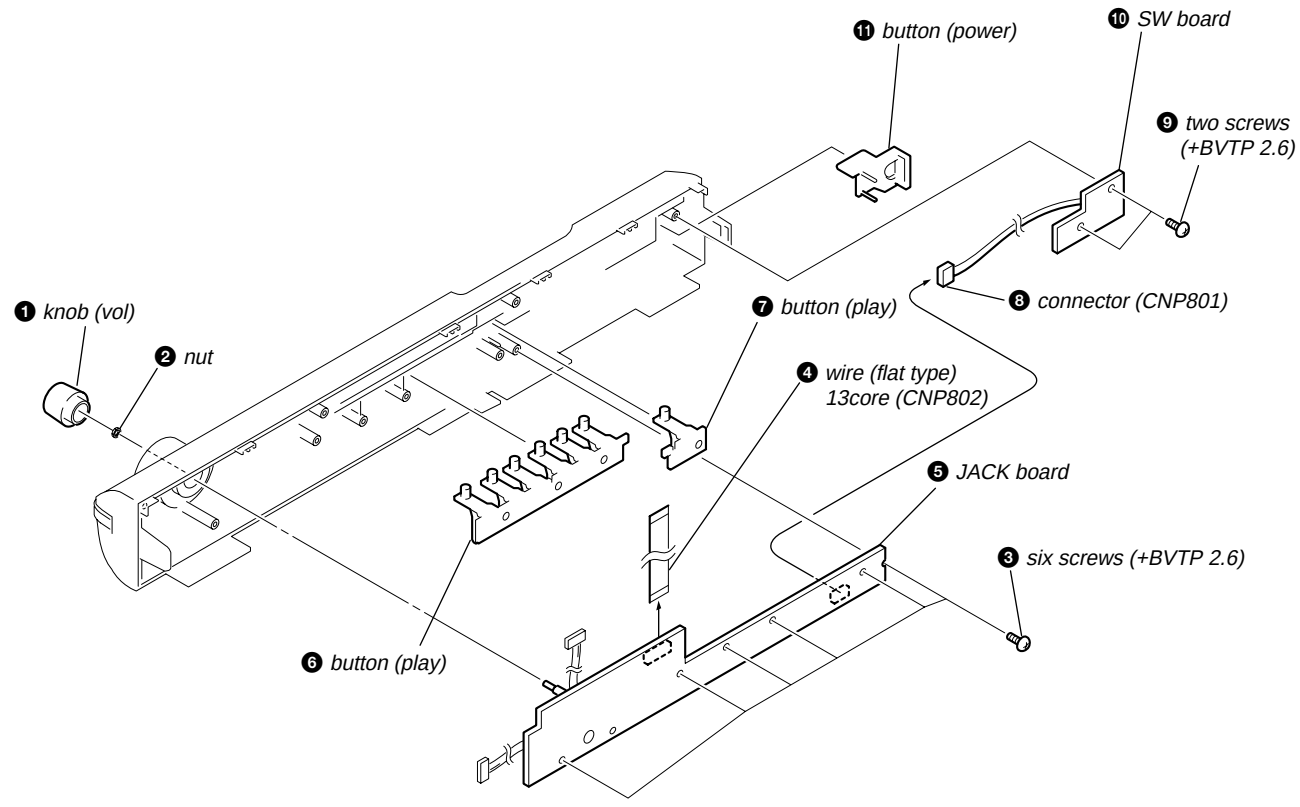
3-2. CASE, FRONT PANEL ASSY


❹ screw (CASE3 TP2)
❻ five screws (+BVTP 3× 8)
❼ case
❾ connector (CN402) (DZ110/DZ111) (CN312) (DZ120/DZ120K)
❺ screw (CASE3 TP2)
❿ two screws (+BVTP 3× 8)
⓬ sheet
❽ sheet
⓫ cover (top)
⓰ claw
⓭ wire (flat type) 23core (CN509)
❸ loading panel
⓱ claw
⓲ front panel assy
⓮ connector (CN3001) (EXCEPT DZ120K)
⓯ three screws (+BV 3× 6)
❶ The lever is moved in the direction of the arrow with the thin rod.
❷
When re-assembling, leave 30 mm between harnesses A and B for safety.
harnesses A
harnesses B
30mm
clamp

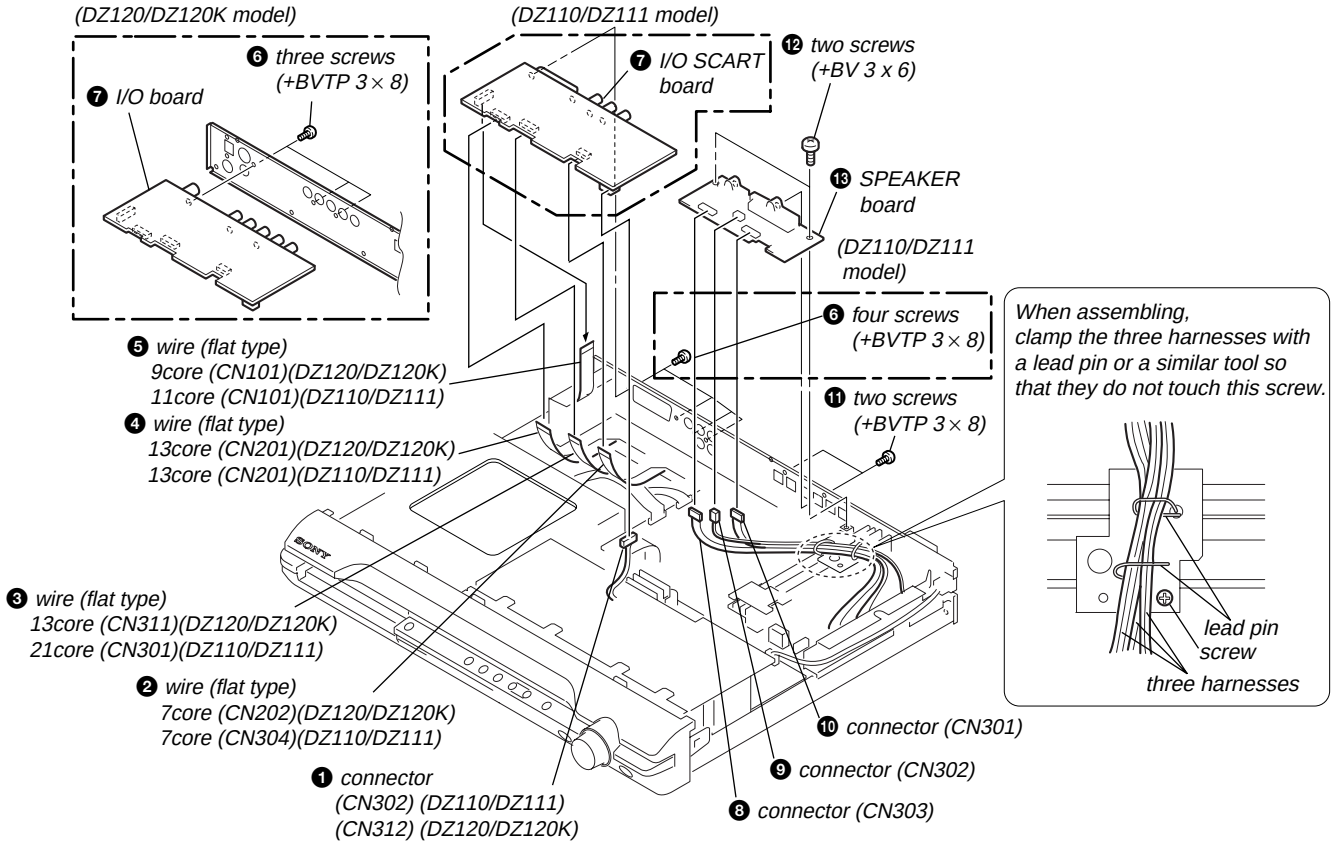
3-3. FL BOARD


8 connector (CN811)
7 wire (flat type) 13core (CN805)
10 FL board
9 wire (flat type) 23core (CN801)
4 shield plate (fs)
3 five screws (+BVTP 2.6 × 8)
6 connector (CN803)
5 screw (+BVTP 2.6 × 8)
2 retainer K
1 three rivets

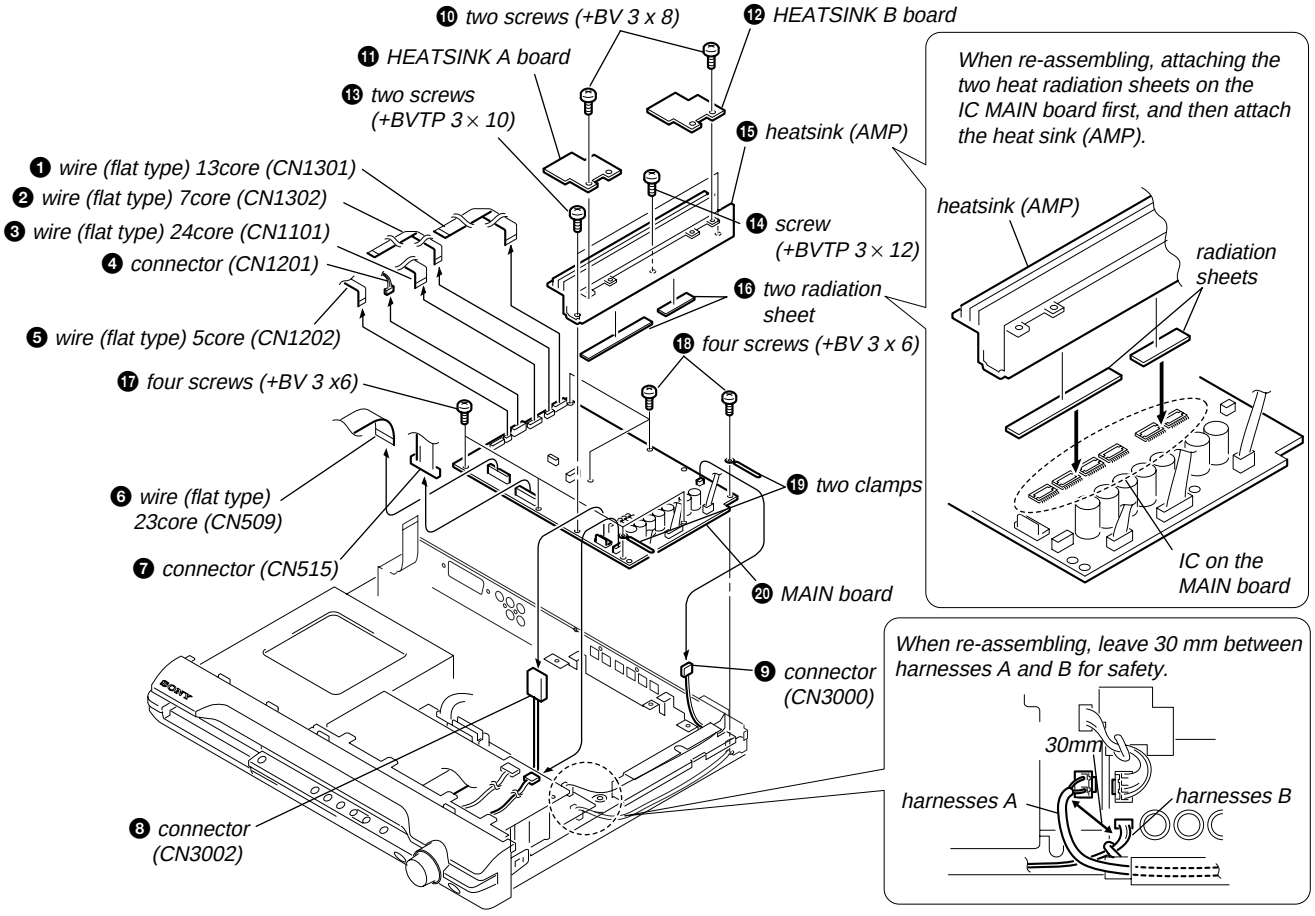
3-4. JACK BOARD, SW BOARD



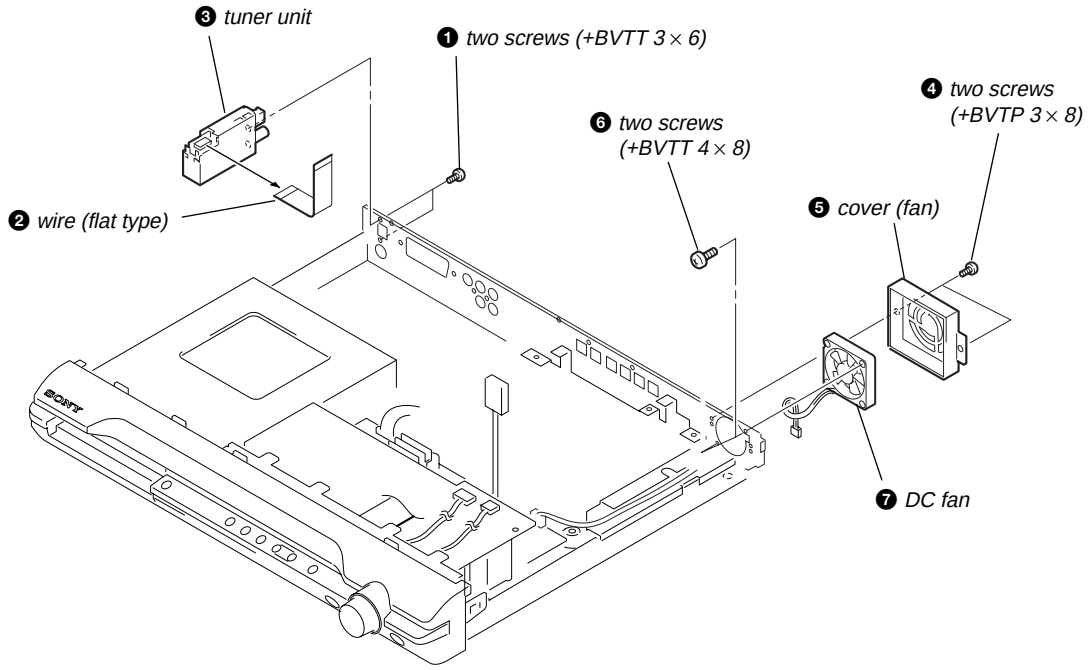
3-5. I/O BOARD (DZ120/DZ120K), I/O SCART BOARD (DZ110/DZ111)


(DZ120/DZ120K model)
(DZ110/DZ111 model)
6 three screws (+BVTP 3× 8)
7 I/O board
7 I/O SCART board
12 two screws (+BV 3 x 6)
13 SPEAKER board
(DZ110/DZ111 model)
6 four screws (+BVTP 3× 8)
11 two screws (+BVTP 3× 8)
5 wire (flat type) 9core (CN101)(DZ120/DZ120K) 11core (CN101)(DZ110/DZ111)
4 wire (flat type) 13core (CN201)(DZ120/DZ120K) 13core (CN201)(DZ110/DZ111)
3 wire (flat type) 13core (CN311)(DZ120/DZ120K) 21core (CN301)(DZ110/DZ111)
2 wire (flat type) 7core (CN202)(DZ120/DZ120K) 7core (CN304)(DZ110/DZ111)
1 connector (CN302) (DZ110/DZ111) (CN312) (DZ120/DZ120K)
10 connector (CN301)
9 connector (CN302)
8 connector (CN303)
When assembling, clamp the three harnesses with a lead pin or a similar tool so that they do not touch this screw.
lead pin
screw
three harnesses

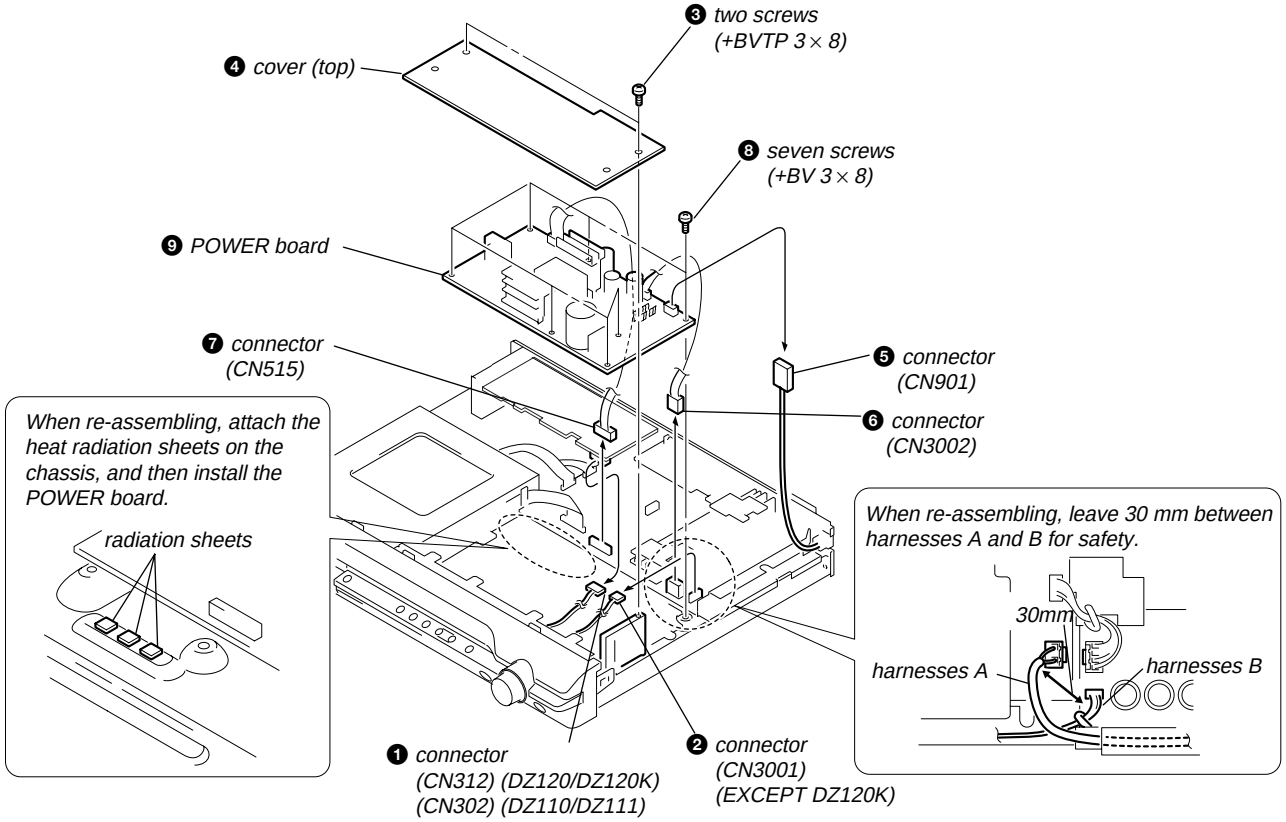
3-6. MAIN BOARD


10 two screws (+BV 3 x 8)
12 HEATSINK B board
11 HEATSINK A board
13 two screws (+BVTP 3× 10)
15 heatsink (AMP)
1 wire (flat type) 13core (CN1301)
2 wire (flat type) 7core (CN1302)
3 wire (flat type) 24core (CN1101)
4 connector (CN1201)
5 wire (flat type) 5core (CN1202)
14 screw (+BVTP 3× 12)
16 two radiation sheet
18 four screws (+BV 3 x 6)
17 four screws (+BV 3 x6)
19 two clamps
6 wire (flat type) 23core (CN509)
7 connector (CN515)
20 MAIN board
9 connector (CN3000)
8 connector (CN3002)
When re-assembling, attaching the two heat radiation sheets on the IC MAIN board first, and then attach the heat sink (AMP).
heatsink (AMP)
radiation sheets
IC on the MAIN board
When re-assembling, leave 30 mm between harnesses A and B for safety.
30mm
harnesses A
harnesses B

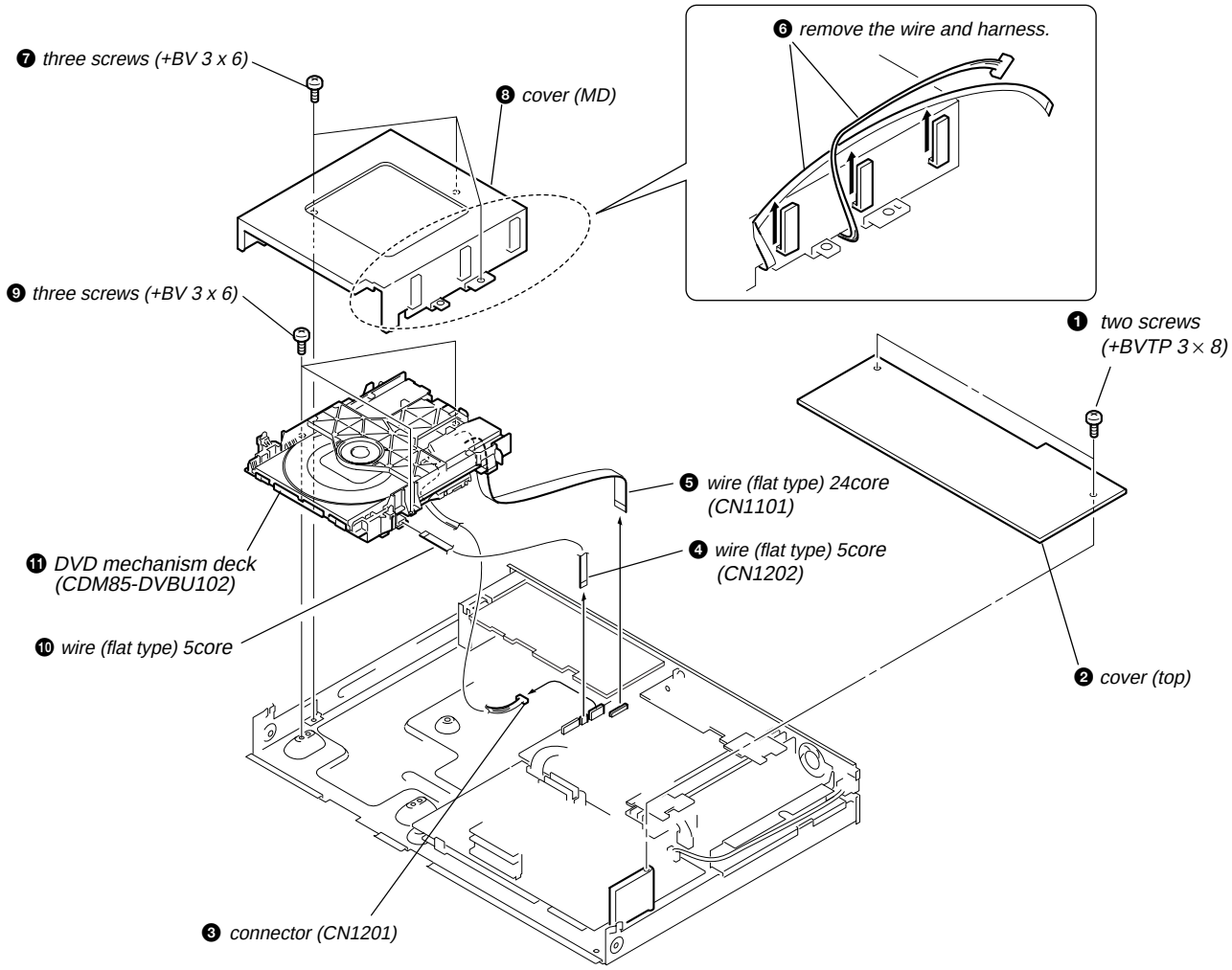
3-7. DC FAN, TUNER UNIT



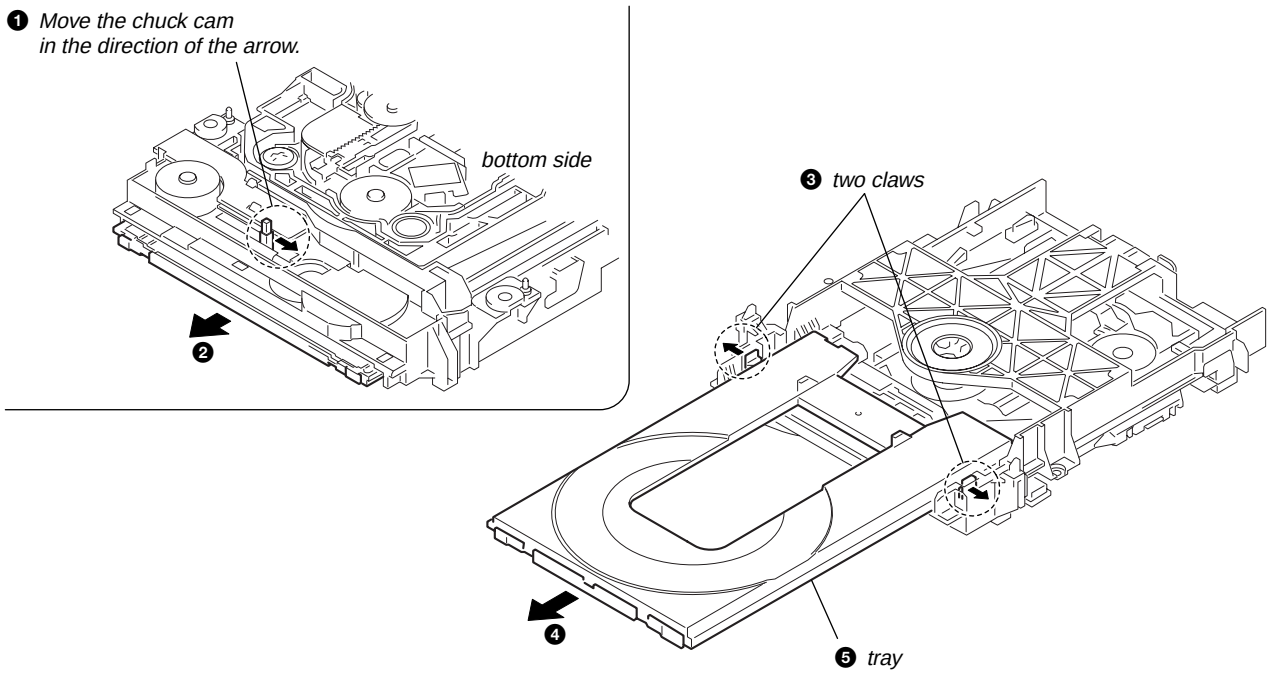
3-8. POWER BOARD


❸ two screws (+BVTP 3× 8)
❹ cover (top)
❽ seven screws (+BV 3× 8)
❾ POWER board
❼ connector (CN515)
❺ connector (CN901)
❻ connector (CN3002)
When re-assembling, attach the heat radiation sheets on the chassis, and then install the POWER board.
radiation sheets
When re-assembling, leave 30 mm between harnesses A and B for safety.
30mm
harnesses A
harnesses B
❶ connector (CN312) (DZ120/DZ120K) (CN302) (DZ110/DZ111)
❷ connector (CN3001) (EXCEPT DZ120K)

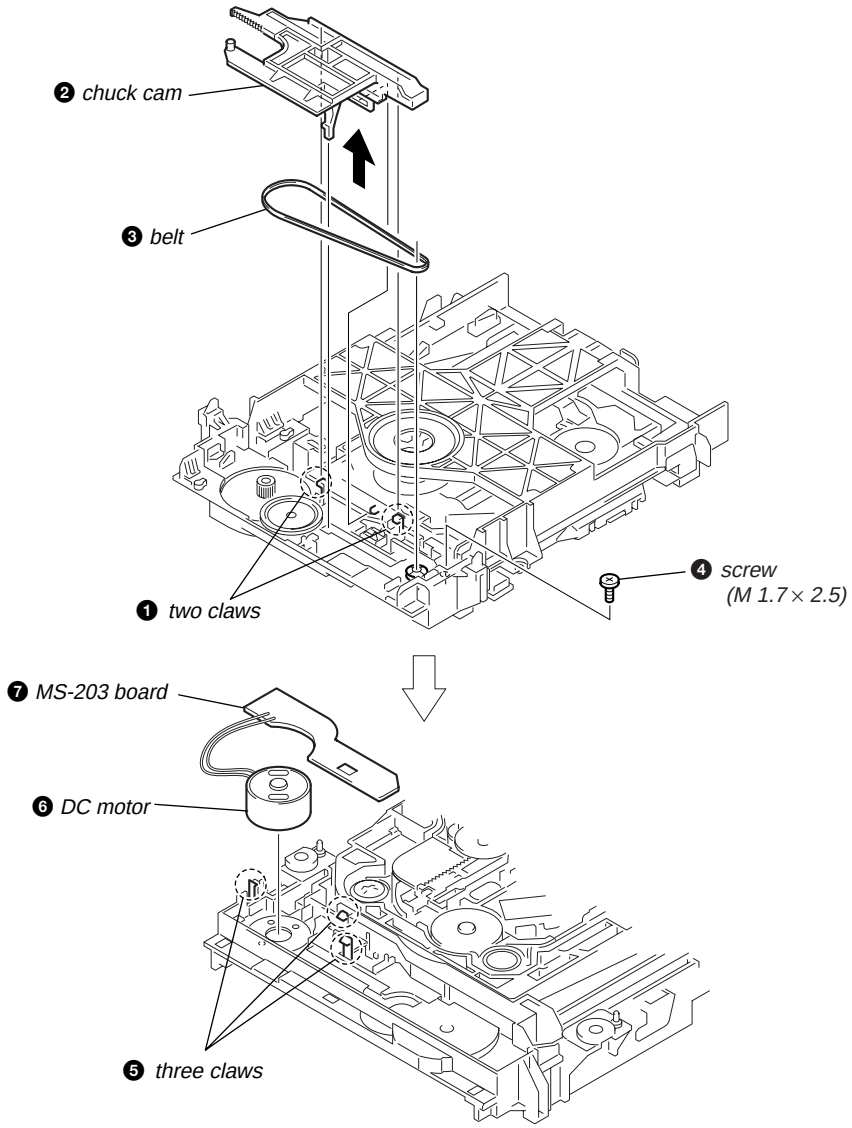
3-9. DVD MECHANISM DECK (CDM85-DVBU102)


❻ remove the wire and harness.
❼ three screws (+BV 3 x 6)
❽ cover (MD)
❾ three screws (+BV 3 x 6)
❶ two screws (+BVTP 3× 8)
❺ wire (flat type) 24core (CN1101)
❹ wire (flat type) 5core (CN1202)
⓫ DVD mechanism deck (CDM85-DVBU102)
❿ wire (flat type) 5core
❷ cover (top)
❸ connector (CN1201)

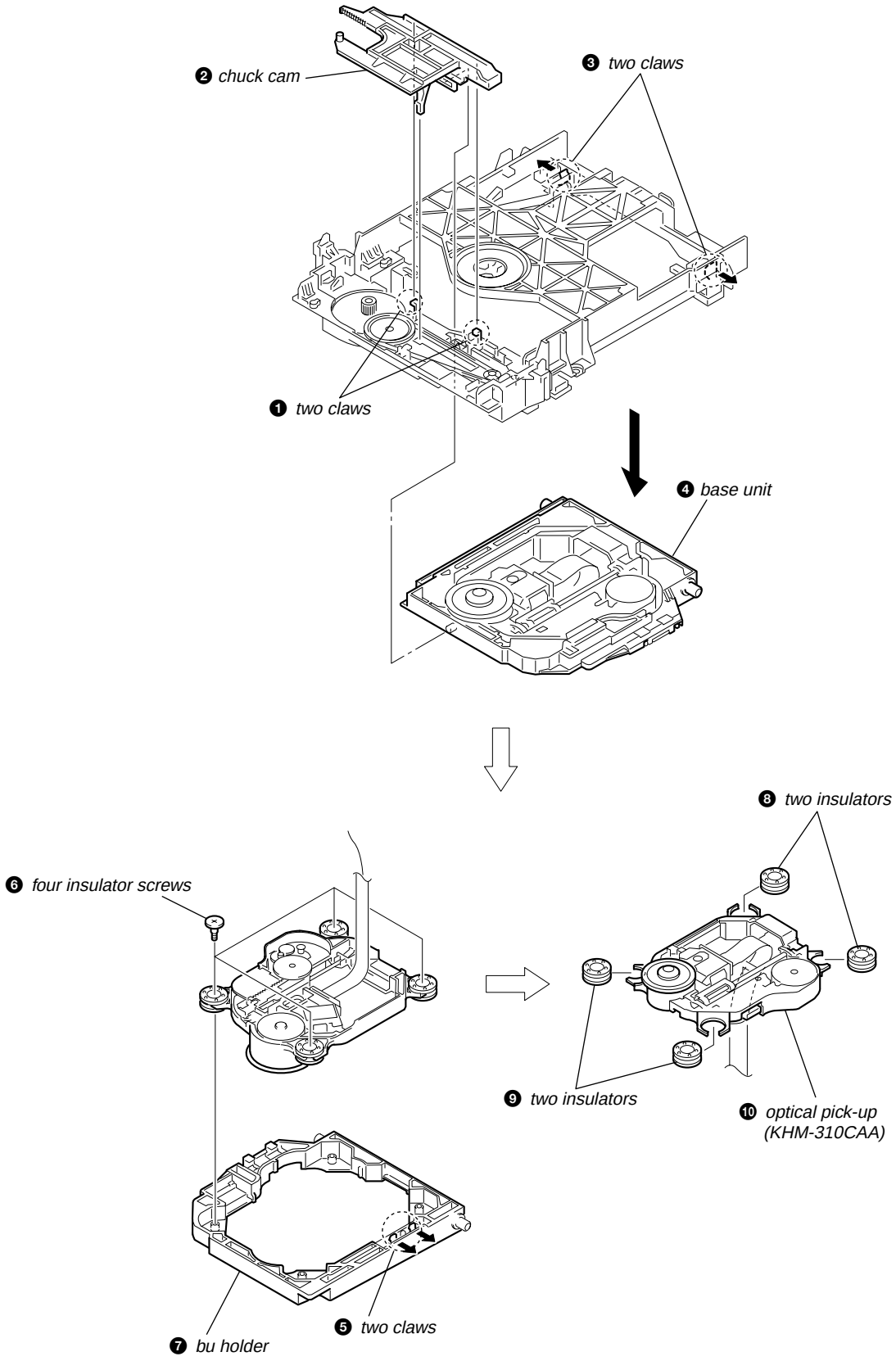
3-10. TRAY



3-11. BELT, MS-203 BOARD



3-12. OPTICAL PICK-UP (KHM-310CAA)



SECTION 4
TEST MODE

Note 1: Regarding the notification symbol "R"
Because the number of the operating buttons of this product are limited, some operations require use of the operating buttons of the remote commander, When a specific operation requires use of the operating buttons of the remote commander, "R" is added to the specific operating procedure in this manual. Example [MENU/NO "R"] The [MENU/NO] button of remote commander.

Note 2: Incorrect operations may be performed if the test mode is not entered properly.
In this case, press the [I/⏻] button to turn the power off, and retry to enter the test mode.

1. Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [■] , [⏏] and [I/⏻] simultaneously.
3. When this button is operated, display as "COLD RESET" for a while and all of the settings are reset.

2. Panel Test Mode

- This mode is used to check the software version, FL, LED and KEY.

2-1. Display Test Mode

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [❚❚], [⏮] and [⏏] simultaneously.
3. When the display test mode is activated, all segments and LEDs are turned on.
4. To exit from this mode, press three buttons [❚❚], [⏮] and [⏏] simultaneously.

2-2. Version Test Mode

Procedure:

1. When the display test mode is activated, press the [⏮] button and the message "DSX1" (DZ110), "DSX1−" (DZ111), "DSX1+" (DZ120), "DSX1K" (DZ120K) are displayed, the version test mode is activated.
2. Whenever the [⏮] button is pressed, the display changes in the following order.

   "DSX1" (Model name) → "CE2*1" (Destination) → MC
   ↑
   TM ← DSP ← TA ← ST ← DVD ← UI ← SYS ←┘

   *1: CE2 changes depending on destination.
3. Press the [⏭] button and the date of the software production is displayed.
4. Press the [⏭] button again and the version is displayed.
5. To exit from this mode, press three buttons [❚❚], [⏮] and [⏏] simultaneously.

2-3. Key Test Mode

Procedure:

1. When the display test mode is activated, press the [▷] button, to select the key test mode.
2. To enter the KEY test mode, the fluorescent indicator displays "K0 V0". Each time a button is pressed, "KEY" value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, "K8 V0" is displayed.
3. When the [VOLUME] control is turned in the direction of (+), "V0" is changed to "V1", then ... "V9".
   When the [VOLUME] control is turned in the direction of (–), "V0" is changed to "V9", then ... "V1".
4. To exit from this mode, press three buttons [❚❚], [⏮] and [⏏] simultaneously.

3. Disc Tray Lock

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set DVD function.
3. Insert a disc.
4. Press the [■] button and the [⏏] button simultaneously for five seconds.
5. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press the [■] button and the [⏏] button simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note: When "LOCKED" is displayed, the slot lock is not released by turning power on/off with the [I/⏻] button.

4. DVD Ship Mode

- Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the set on.
2. Press the [FUNCTION] button to set the function "DVD".
3. Remove all discs, and then press two buttons [■] and [⏮] simultaneously.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, pull out the AC plug.
5. To exit from this mode, press the [I/⏻] button to turn the set on.

5. AM Step Change

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press the [I/⏻] button to turn the set ON.
2. Select the function "TUNER", and press [FUNCTION] button to select the BAND "AM".
3. Press the [I/⏻] button to turn the set OFF.
4. Press two buttons [⏭] and [I/⏻] simultaneously, and the display of fluorescent indicator tube changes to "AM 9 k STEP" or "AM 10 k STEP", and thus the channel step is changed over.

6. Volume Test Mode

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press three buttons [⏮], [▷] and [⏭] simultaneously.
3. The message "VOLUME MAX" is displayed, when the [VOLUME] control is turned in the dirction of (+).
   The message "VOLUME MIN" is displayed, when the [VOLUME] control is turned in the dirction of (–).
4. To exit from this mode, press the [I/⏻] button to turn the set off.

7. Product Out

This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the power on.
2. Press the [FUNCTION] button to set the function "DVD".
3. Remove all discs, and then press three buttons [⏭], [⏏] and [I/⏻] simultaneously.
4. After the "STANDBY" blinking display finishes, the message "MECHA LOCK" is displayed on the fluorescent indicator tube disconnect the AC power plug, then the ship mode is set.

DVD SECTION

8-1. GENERAL DESCRIPTION

The IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on-screen display (OSD).
Be sure to execute the IOP measurement when a BU (Base Unit) is replaced.

8-2. HOW TO ENTER TEST MODE

While pressing the ■ and ⏏ buttons simultaneously, turn VOLUME + with the DVD player in power on.
The Test Mode starts, then the menu shown below will be displayed on the TV screen.

* The display of the "Model Name" of the "Remocon Diagnosis Menu" change with the model and the destination. Refer to below on the model name.

DZ110 : DSX1
DZ111 : DSX1–
DZ120 : DSX1+
DZ120K : DSX1K

```
        Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version Information


Model Name : DSX1_XX   *1
IF-con     : Ver. XX.XX (XXXX)
Syscon     : Ver. X.XXX
```

*1: Changes depending on destination

The menu above is the Remocon Diagnosis Menu screen which consists of five main functions. At the bottom of the menu screen, the model name and IF-con version. To exit from the Test Mode, press the power button on the remote commander.

8-3. EXECUTING IOP MEASUREMENT

In order to execute IOP measurement, the following standard procedures must be followed.

(1) In power on, while pressing the ■ and ⏏ buttons simultaneously, turn VOLUME + .

```
        Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History Check
4. Version information


Model Name : DSX1_XX   *1
IF-con     : Ver. XX.XX (XXXX)
Syscon     : Ver. X.XXX
```

*1: Changes depending on destination

(2) Select "2. Drive Manual Operation" by pressing the 2 "R" button on the remote commander. The screen will appear as shown.

```
        Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Tray Aging Mode
5. MIRR time adjust
0. Return to top Menu
```

(3) Select "3. Manual Adjustment" by pressing the 3 "R" button on the remote commander. The screen will appear as shown.

```
          Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

↓ ↑ Change Value
[RETURN] Return to previous menu
```

(4) Select "6.IOP" by pressing the 6 "R" button on the remote commander.

(5) Wait until a hexadecimal number appear.

```
          Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eq Boost Adjust:
6. Iop.(5B)
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

Change Value
[0] Return to previous menu
```

(6) Convert each data from hexadecimal to decimal using conversion table.

(7) Please find the label on the rear of the BU (Base Unit). The default IOP value is written in the label.

(8) Subtract between these two values.

(9) If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.

(10) Press the RETURN "R" button to return back to previous menu.

(11) Press the 0 "R" button to return to Top Menu and power off the DVD Player.

8-4. EMERGENCY HISTORY

To check the emergency history, please follow the following procedure.

(1) From the Top Menu of Remocon Diagnosis Menu, select "3. Emergency History Check" by pressing the [3 "R"] button on the remote commander. The following screen appears on the on-screen display.

```
                Emg.History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

1.  01  05  04  04        00  92  46  00
    00  00  00  00        00  00  23  45
2.  02  02  01  01        00  A9  4B  00
    00  00  00  00        00  00  23  45

[Next] Next Page  [Prev] Prev Page
[O] Return to Top Menu
```

(2) You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.

(3) You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press [I◀◀ "R"] or [▶▶I "R"] on the remote commander. The error code consists of the following three blocks. The first block indicates the error code. The second block indicates the parameter and the third block indicates the time of error code as shown below.

• Error Code

```
                Emg.History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

      *1  *2
1.  [01] [05  04  04]    00  92 [46  00]
    [00  00  00  00]    [00  00 [23  45] *3
2.  02  02  01  01        00  A9  4B  00
    00  00  00  00        00  00  23  45

[Next] Next Page  [Prev] Prev Page
[O] Return to Top Menu
```

*1 : Error Code
*2 : Parameter of error code
*3 : Time of error code

The meaning of error code is as below:

01: Communication error (No reply from syscon)
02: Syscon hung up
03: Power OFF request when syscon hung up
19: Thermal shutdown
24: MoveSledHome error
25: Mechanical move error (5 Changer)
26: Mechanical move stack error
30: DC motor adjustment error
31: DPD offset adjustment error
32: TE balance adjustment error
33: TE sensor adjustment error
34: TE loop gain adjustment error
35: FE loop gain adjustment error
36: Bad jitter after adjustment
40: Focus NG
42: Focus layer jump NG
52: Open kick spindle error
51: Spindle stop error
60: Focus on error
61: Seek fail error
62: Read Q data/ID error
70: Lead in data read fail
71: TOC read time out (CD)
80: Can't buffering
81: Unknown media type

8-4-1. Clear the Laser Hour

Press [DISPLAY "R"] button and then press [CLEAR "R"] button. The data for both CD and DVD data are reset.

```
                Emg.History Check

Laser Hours        CD     0h          0min
                   DVD    0h          0min

1.  01  05  04  04        00  92  46  00
    00  00  00  00        00  00  23  45
2.  02  02  01  01        00  A9  4B  00
    00  00  00  00        00  00  23  45

[Next] Next Page  [Prev] Prev Page
[O] Return to Top Menu
```

8-4-2. Clear the Emergency History

Press [TOP MENU "R"] button and then press [CLEAR "R"] button. The error code for all emergency history would be reset.

```
                Emg.History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

1.  00  00  00  00        00  00  00  00
    00  00  00  00        00  00  00  00
2.  00  00  00  00        00  00  00  00
    00  00  00  00        00  00  00  00

[Next] Next Page  [Prev] Prev Page
[O] Return to Top Menu
```

8-4-3. Clear the Initialize Setup Data

Press [MENU "R"] button and then press [CLEAR "R"] button on the remote commander.

8-4-4. Return to the Top Menu of Remocon Diagnosis Menu

Press [0 "R"] button on the remote commander.

• Check Version Information

To check the version information, please follow the following procedure.

(1) From the Top Menu of Remocon Diagnosis Menu, select "4. Version Information" by pressing the [4 "R"] button on the remote commander. The following screen appears on the on-screen display.

```
Version information

Firm (Main) :  Ver. xxxxx
Firm (Sub) :  xxxxx
RISC :  xxxxx
8032 :  xxxxx
Audio DSP :  xxxxx
Servo DSP :  xxxxx

[0] Return to Top Menu
```

To return to the Top Menu of Remocon Diagnosis Menu, press [0 "R"] on the remote commander.

SECTION 5
ELECTRICAL ADJUSTMENT

DVD SECTION

When the base unit is replaced, perform the adjustment and the measurement as shown below in this order.

EXECUTING IOP MEASUREMENT (See page 20)

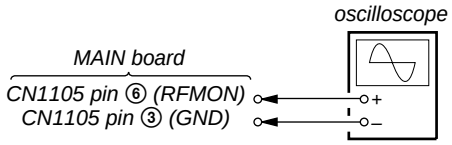
[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

- CD YEDS-18 (Part No.: 3-702-101-01)
  PATD-012 (Part No.: 4-225-203-01)
- DVD SL (Single Layer)
  NTSC : HLX-503 (Part No.: J-6090-069-A)
  HLX-504 (Part No.: J-6090-088-A)
  PAL : HLX-506 (Part No.: J-6090-077-A)
- DVD DL (Dual Layer)
  NTSC : HLX-501 (Part No.: J-6090-071-A)
  HLX-505 (Part No.: J-6090-089-A)
  PAL : HLX-507 (Part No.: J-6090-078-A)

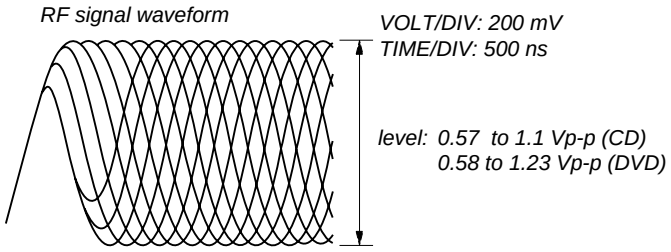
[RF Level Check]

Connection:



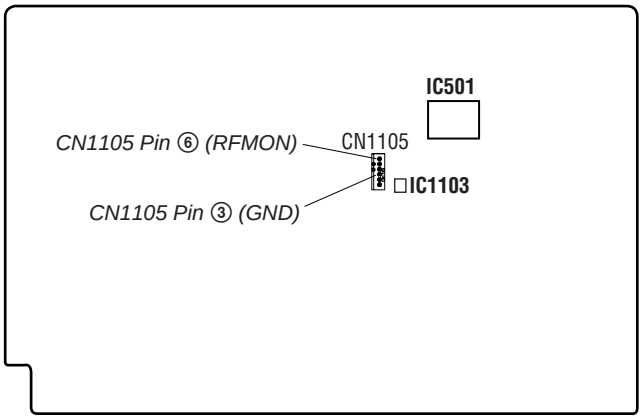
Procedure:

1. Connect an oscilloscope to CN1105 pin ⑥ (RFMON) and CN1105 pin ③ (GND) on the MAIN board.
2. Turn the power on.
3. Insert the CD test disc (refer to the TEST DISC LIST), and press the ▷ button to play the disc back.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
   Note: A clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.
5. Eject the CD disc, and insert the DVD SL test disk (refer to the TEST DISC LIST), and press the ▷ button to play the disc back.



Checking Location: MAIN board (Side A)

【MAIN BOARD】(SIDE A)



SECTION 6
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.
Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

☆ New part of EEP ROM (IC1103) on the MAIN board cannot be used. Therefore, if the mounted MAIN board (A-1144-739-A, etc.) is replaced, exchange new EEP ROM (IC1103) with that used before the replacement.

- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
  no mark : DVD STOP
  ∗ : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
- Circled numbers refer to waveforms.
- Signal path.
  - : AUDIO
  - : CD PLAY
  - : DVD PLAY
  - : SACD PLAY
  - : TUNER
  - : VIDEO
  - : Y
  - : CHROMA
  - : COMPONENT VIDEO
  - : R, G, B
  - : AUDIO IN
- Abbreviation

AUS	: Australian Model
AR	: Argentina model
CND	: Canadian Model
E3	: 240V AC area in E model
E12	: 220-240V AC area in E model
E32	: 110-240V AC area in E model
EA	: Saudi Arabia model
KR	: Korean model
MX	: Mexican model
RU	: Russian model
SP	: Singapore model
TW	: Taiwan model

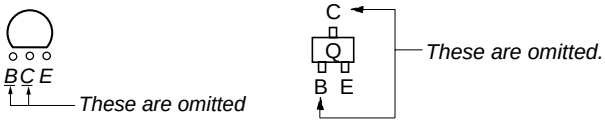
For Printed Wiring Boards.
Note:

- ○——— : parts extracted from the component side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

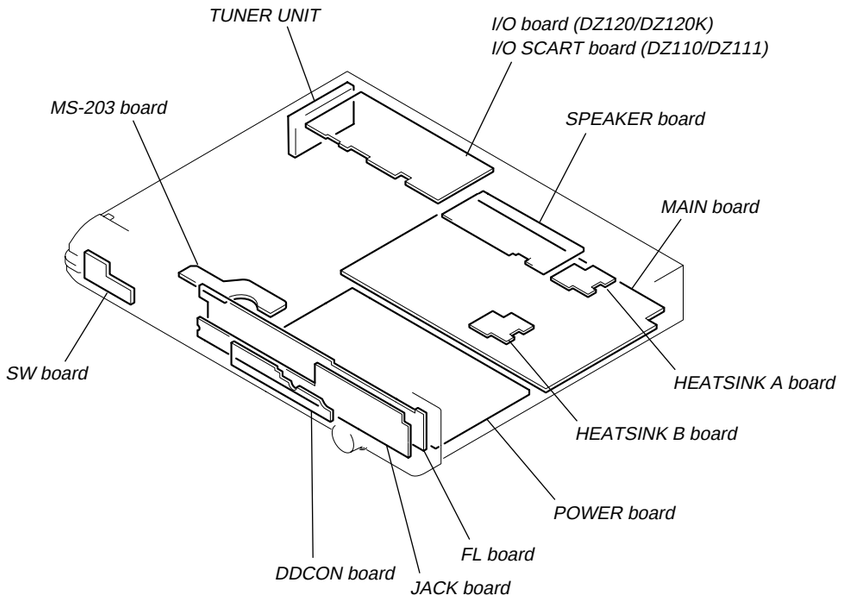
(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (SIDE B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A) Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



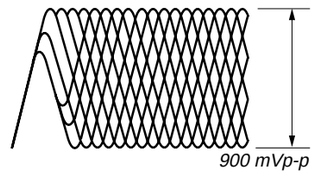
• Circuit Boards Location



• Waveforms

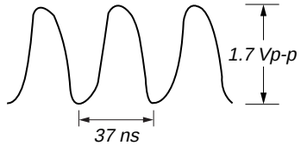
– MAIN Board –

① IC1101 ⑥ (DVDRFIP)



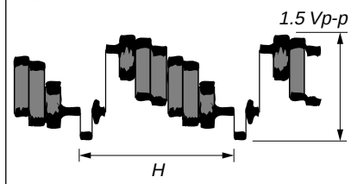
200 mV/DIV, 100 ns/DIV

② IC1101 ㉓ (XTALI)



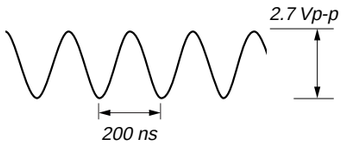
1 V/DIV, 10 ns/DIV

③ IC1101 ㊱ (YUV3)



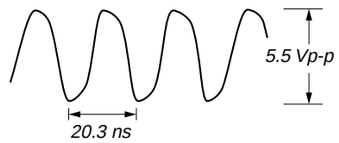
500 mV/DIV, 20 µs/DIV

④ IC501 ⑮ (XIN)



1 V/DIV, 100 ns/DIV

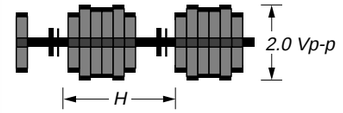
⑤ IC3010 ㊽ (XFSOIN)



1 V/DIV, 10 ns/DIV

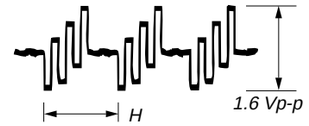
– I/O Board (DZ120/DZ120K) –

⑥ IC201 ㉖ (COUT)



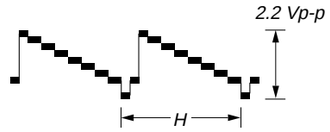
1 V/DIV, 20 µs/DIV

⑨ IC201 ⑱ (CbOUT)



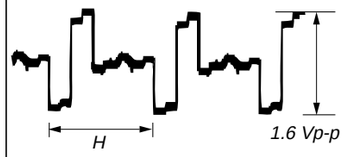
500 mV/DIV, 20 µs/DIV

⑦ IC201 ㉑ (YOUT)



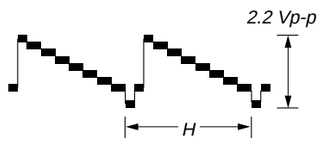
1 V/DIV, 20 µs/DIV

⑩ IC201 ⑯ (CrOUT)



500 mV/DIV, 20 µs/DIV

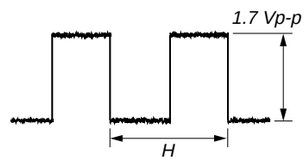
⑧ IC201 ⑳ (CYOUT)



1 V/DIV, 20 µs/DIV

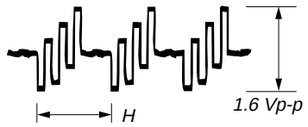
– I/O SCART Board (DZ110/DZ111) –

⑥ IC230 ㉔ (CYOUT)



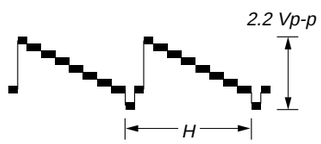
500 mV/DIV, 20 µs/DIV

⑨ IC201 ㉑ (CbOUT)



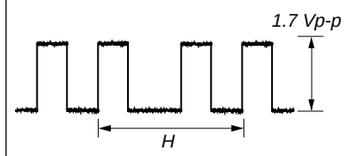
500 mV/DIV, 20 µs/DIV

⑦ IC201 ㉔ (CYOUT)



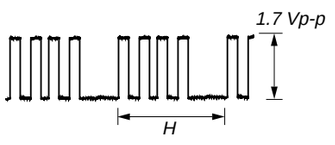
1 V/DIV, 20 µs/DIV

⑩ IC230 ⑱ (CrOUT)



500 mV/DIV, 20 µs/DIV

⑧ IC230 ㉑ (CbOUT)

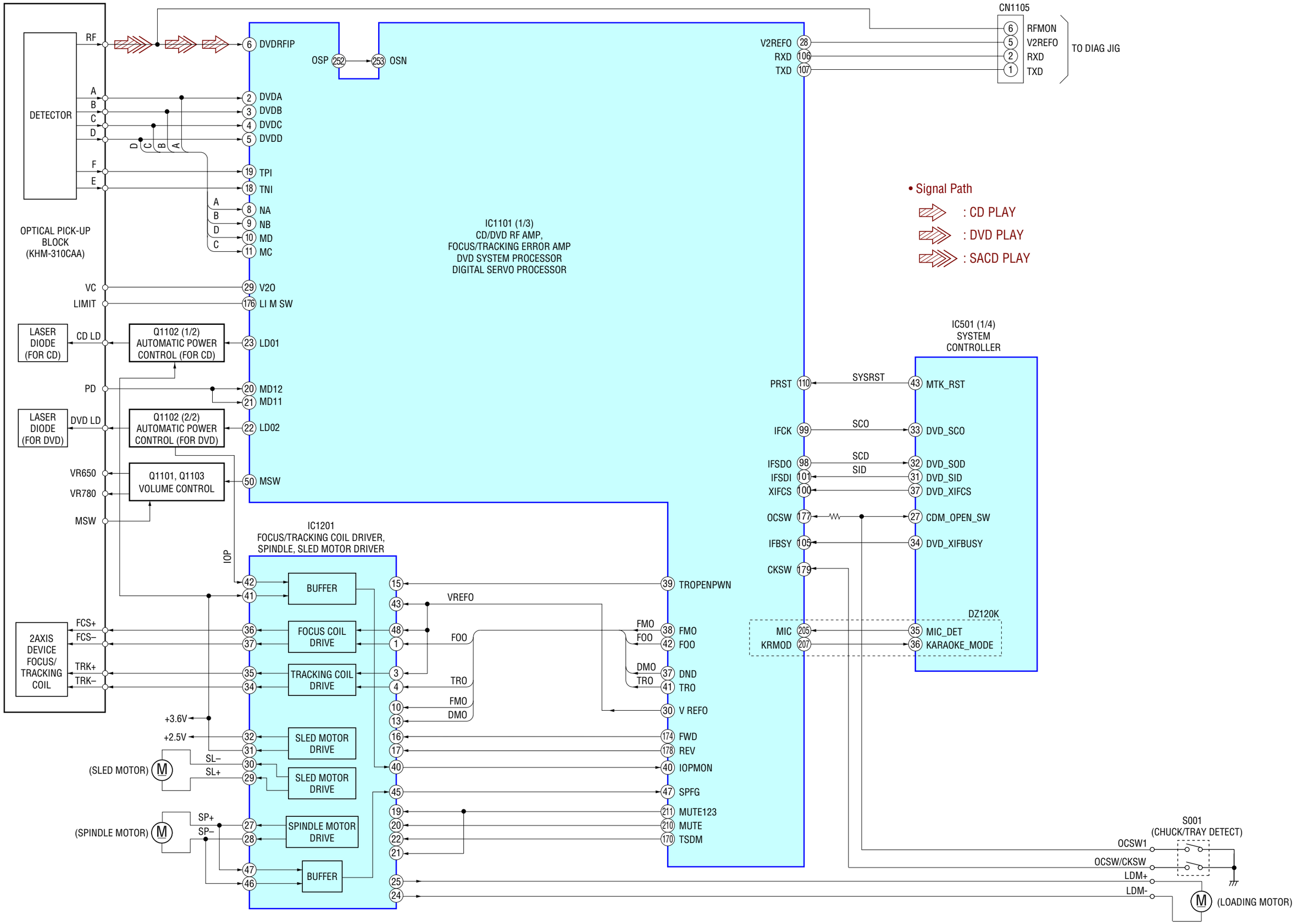


500 mV/DIV, 20 µs/DIV

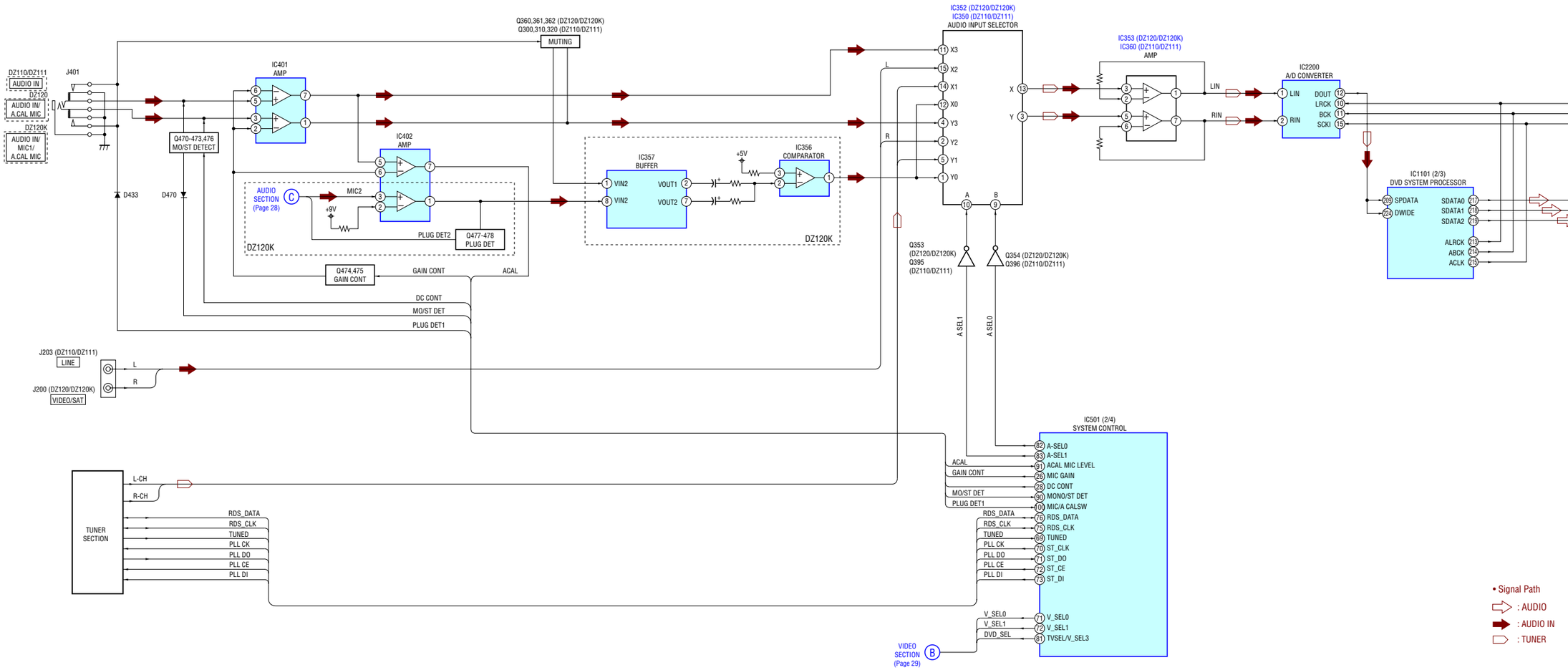
⑪ IC201 ⑱ (CrOUT)

500 mV/DIV, 20 µs/DIV

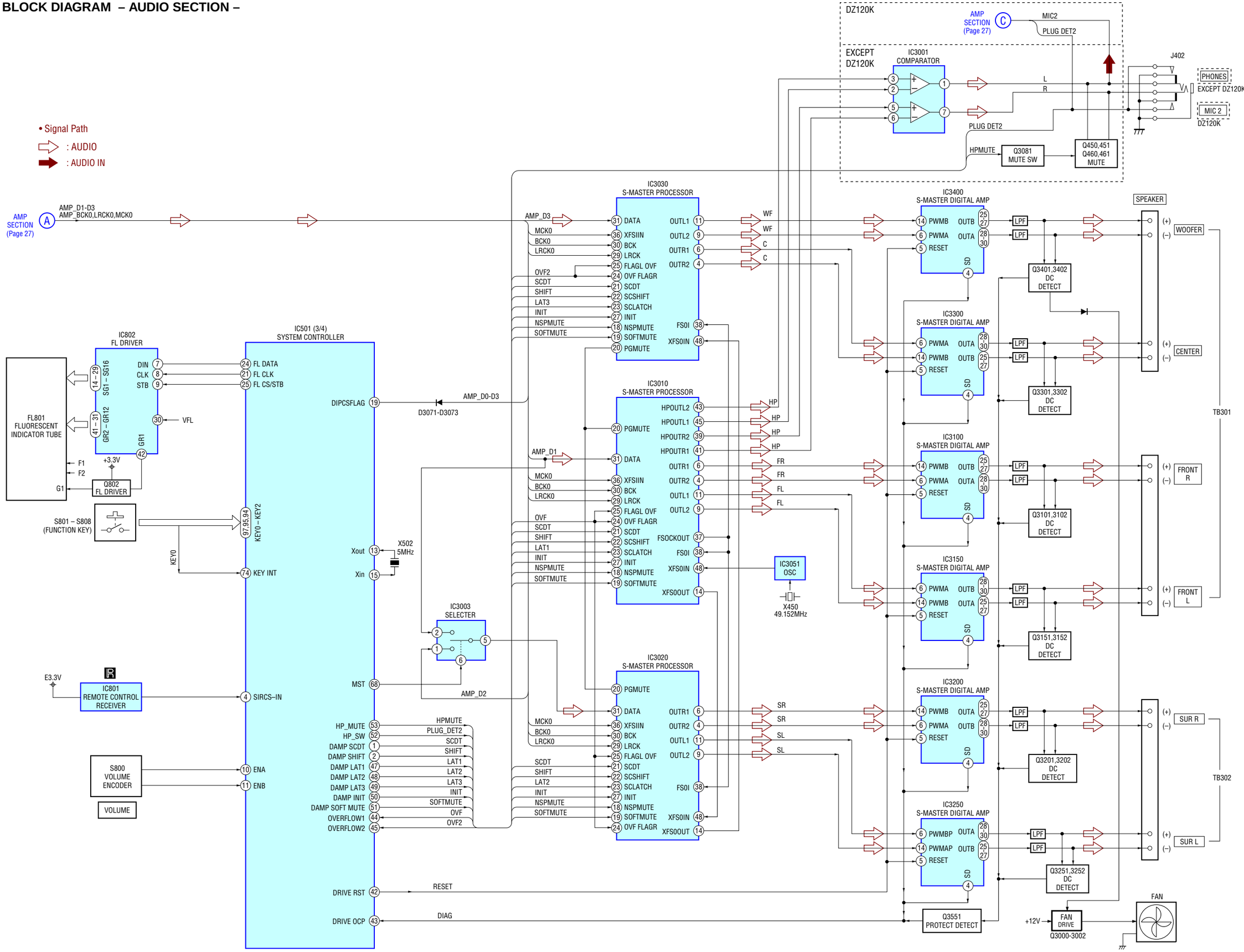
6-1. BLOCK DIAGRAM – RF SECTION –



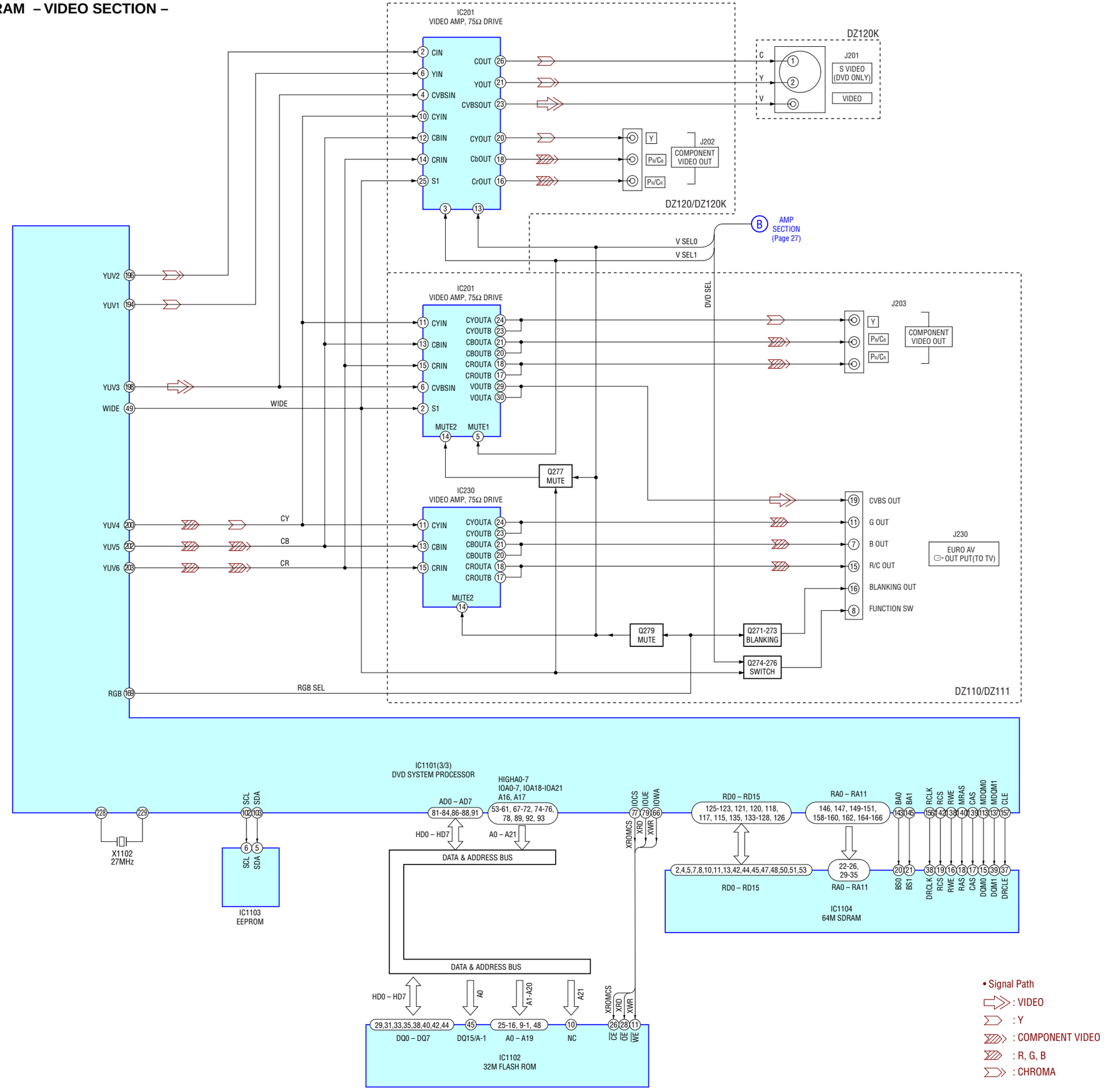
6-2. BLOCK DIAGRAM – AMP SECTION –



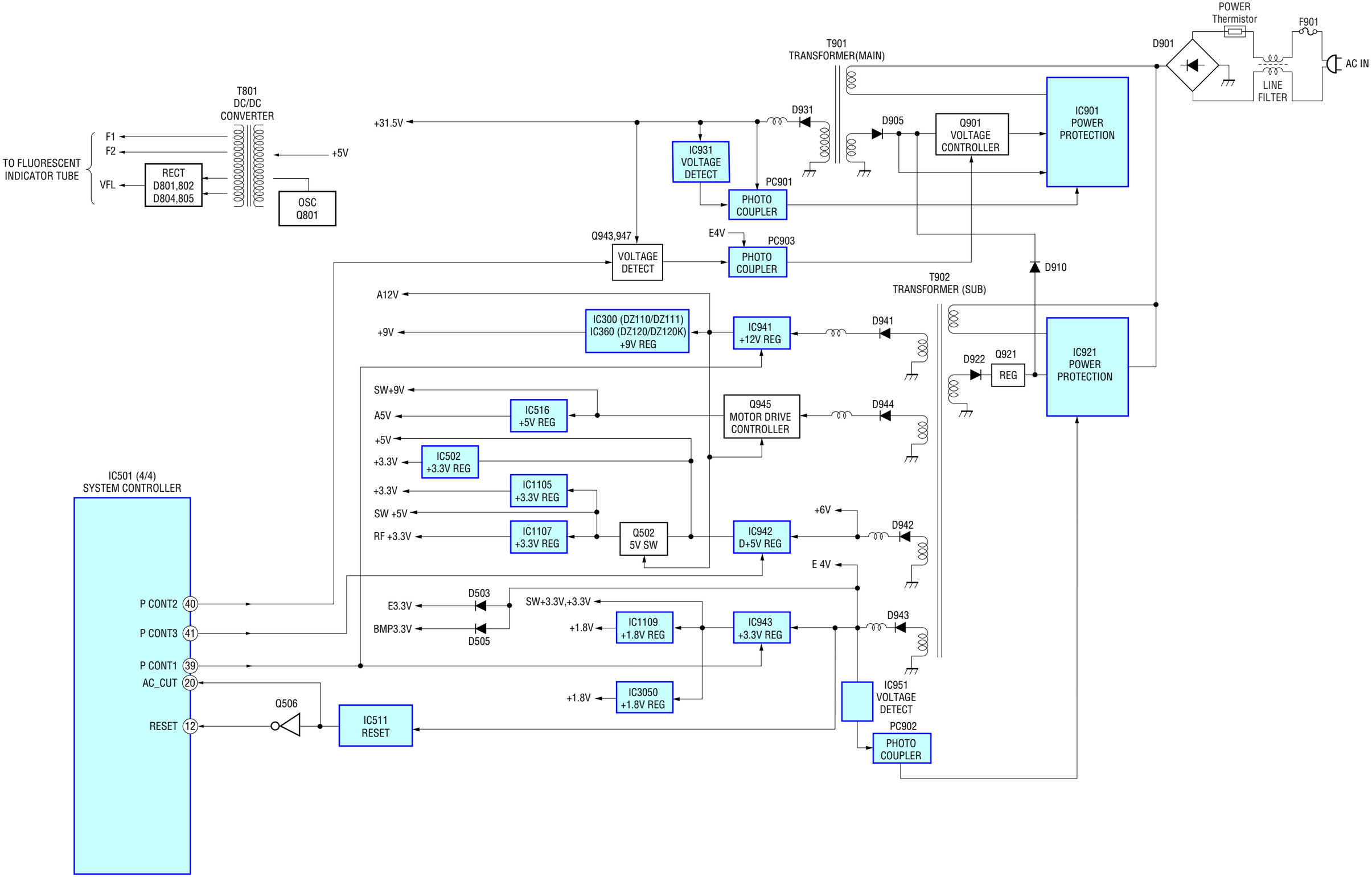
6-3. BLOCK DIAGRAM – AUDIO SECTION –



6-4. BLOCK DIAGRAM – VIDEO SECTION –



6-5. BLOCK DIAGRAM – POWER SECTION –



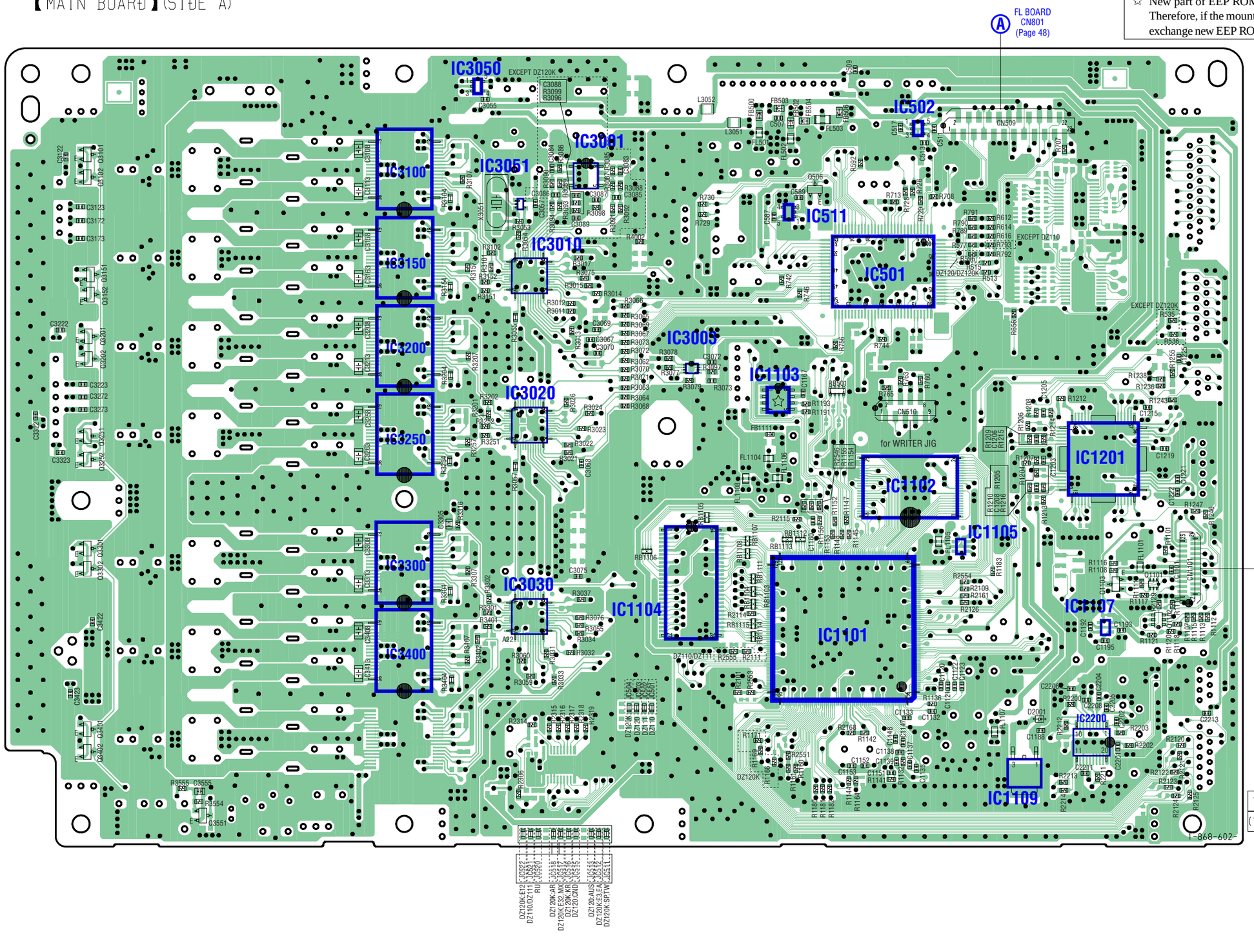
6-6. PRINTED WIRING BOARD – MAIN BOARD (SIDE A) –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

【MAIN BOARD】(SIDE A)

☆ New part of EEP ROM (IC1103) on the MAIN board cannot be used. Therefore, if the mounted MAIN board (A-1144-739-A, etc.) is replaced, exchange new EEP ROM (IC1103) with that used before the replacement.



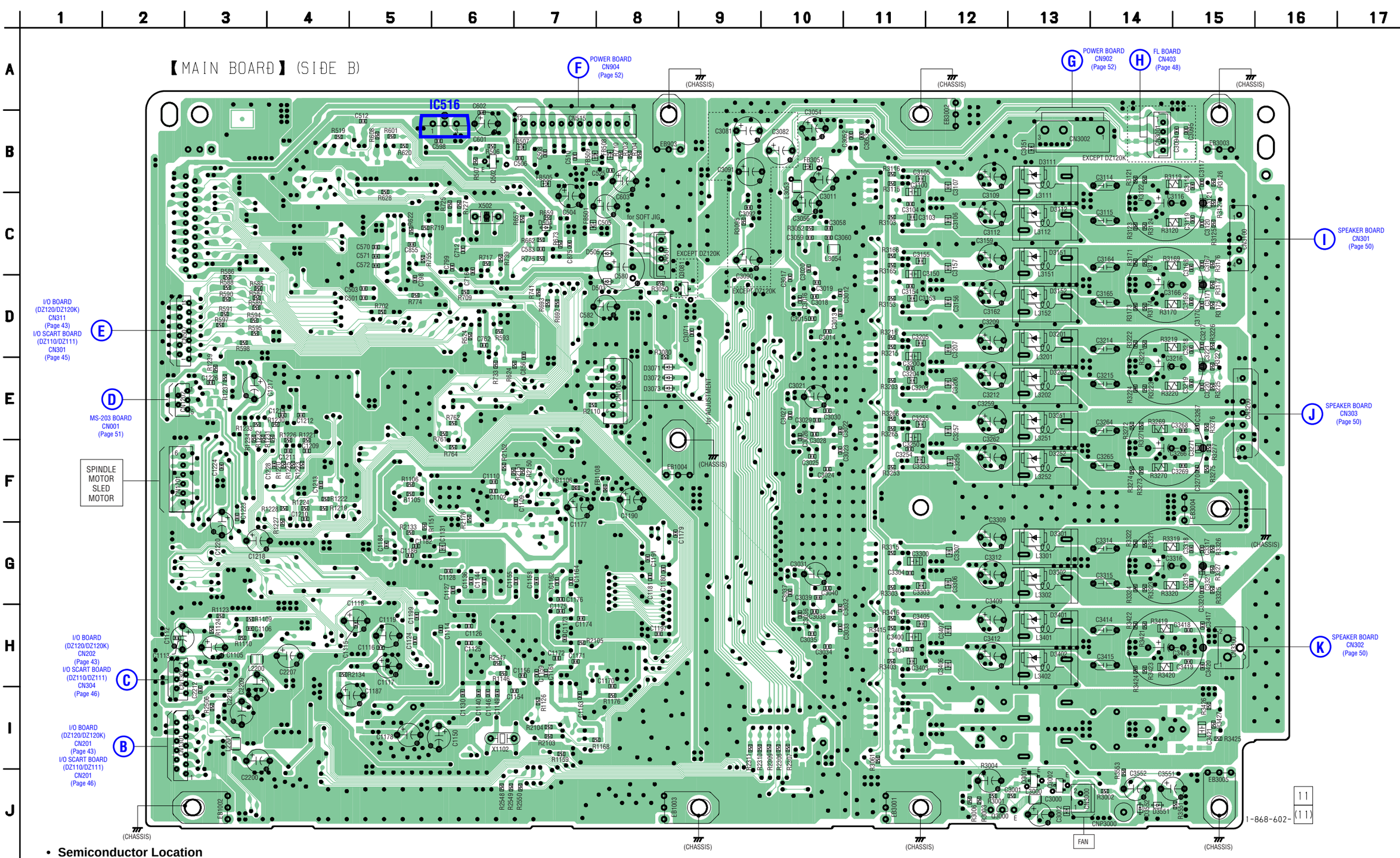
- **Semiconductor Location**

Ref. No.	Location
D2001	I-12
IC501	D-11
IC502	B-11
IC511	C-10
IC1101	H-10
IC1102	F-11
IC1103	E-9
IC1104	H-8
IC1105	G-12
IC1107	H-13
IC1109	J-12
IC1201	F-13
IC2200	I-13
IC3001	C-7
IC3003	E-8
IC3010	D-7
IC3020	E-7
IC3030	H-7
IC3050	B-6
IC3051	C-7
IC3100	C-5
IC3150	D-5
IC3200	E-5
IC3250	F-5
IC3300	G-5
IC3400	H-5
Q506	C-10
Q1101	G-14
Q1102	H-14
Q1103	G-13
Q3101	C-2
Q3102	C-2
Q3151	D-2
Q3152	D-2
Q3201	E-2
Q3202	E-2
Q3251	F-2
Q3252	F-2
Q3301	G-2
Q3302	G-2
Q3401	I-2
Q3402	I-2
Q3551	J-3

6-7. PRINTED WIRING BOARD – MAIN BOARD (SIDE B) –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

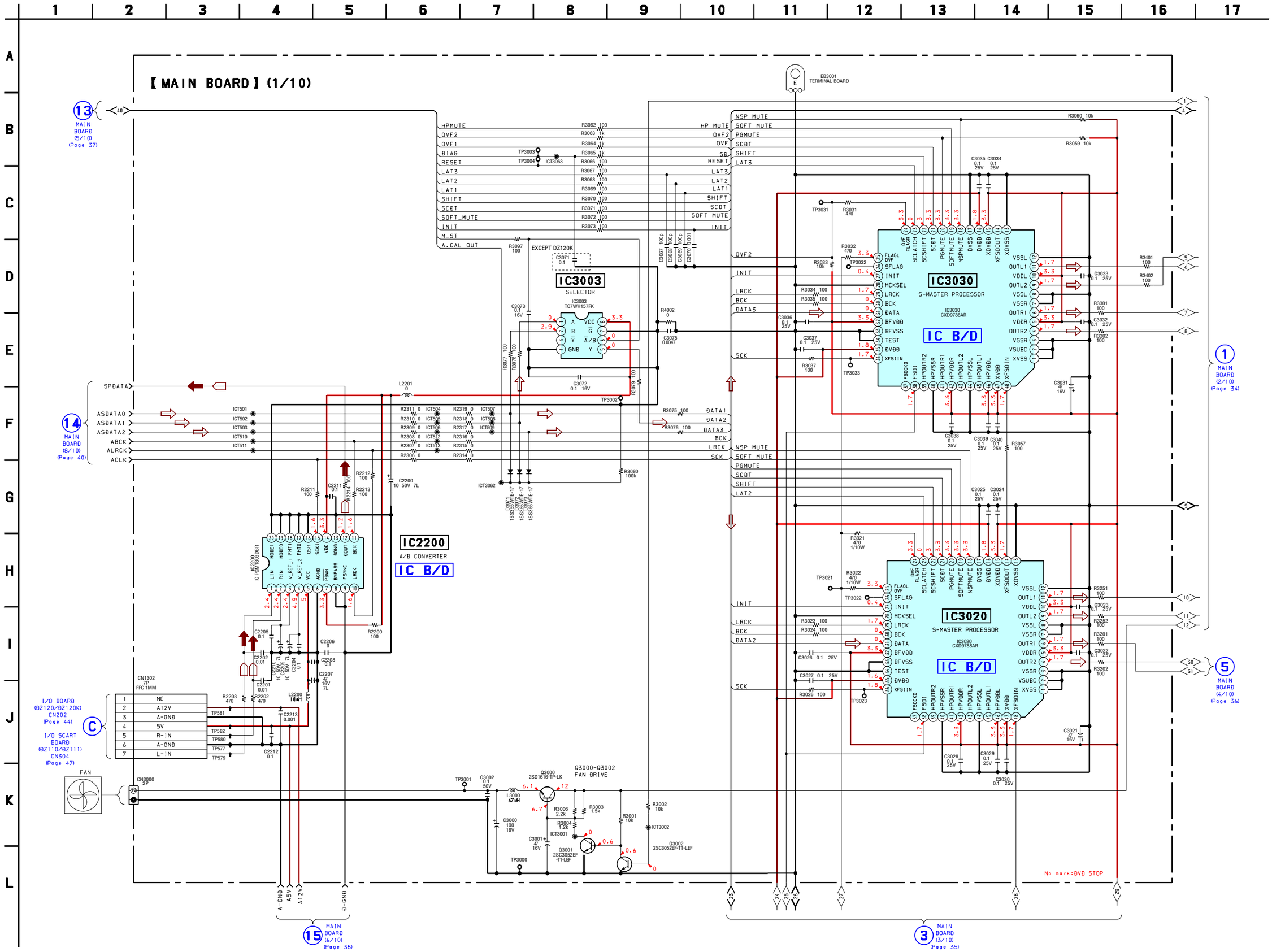

【MAIN BOARD】(SIDE B)
IC516
F POWER BOARD CN904 (Page 52)
G POWER BOARD CN902 (Page 52)
H FL BOARD CN403 (Page 48)
I SPEAKER BOARD CN301 (Page 50)
J SPEAKER BOARD CN303 (Page 50)
K SPEAKER BOARD CN302 (Page 50)
E I/O BOARD (DZ120/DZ120K) CN311 (Page 43) I/O SCART BOARD (DZ110/DZ111) CN301 (Page 45)
D MS-203 BOARD CN001 (Page 51)
SPINDLE MOTOR SLED MOTOR
C I/O BOARD (DZ120/DZ120K) CN202 (Page 43) I/O SCART BOARD (DZ110/DZ111) CN304 (Page 46)
B I/O BOARD (DZ120/DZ120K) CN201 (Page 43) I/O SCART BOARD (DZ110/DZ111) CN201 (Page 46)
(CHASSIS)
for SOFT JIG
EXCEPT DZ120K
IC ADJUSTMENT
FAN
1-868-602-11 (11)

- **Semiconductor Location**

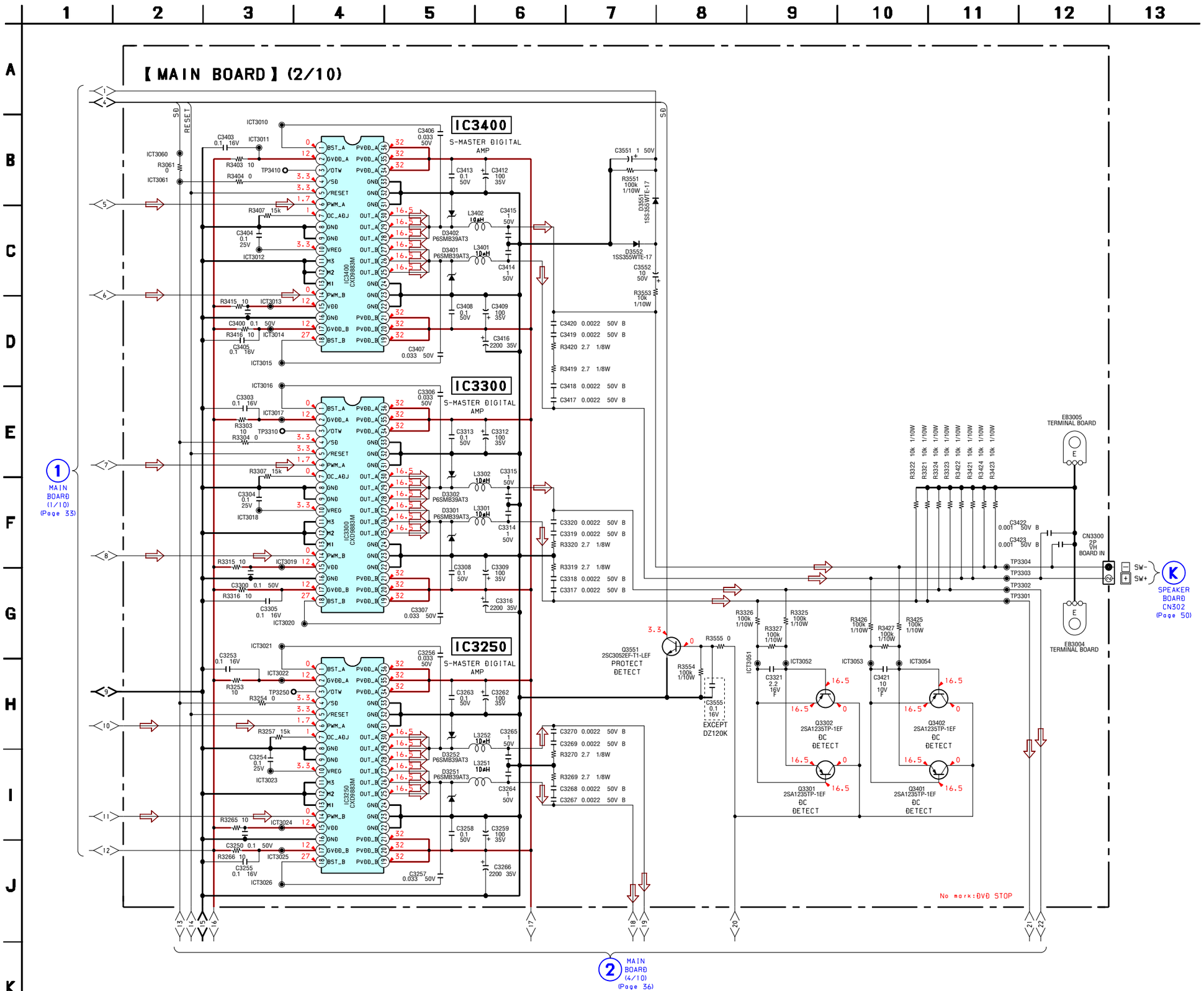
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D503	D-8	D3201	D-13	IC516	B-6
D504	C-7	D3202	E-13		
D505	C-8	D3251	E-13	Q502	B-6
D3071	E-8	D3252	F-13	Q3000	J-12
D3072	E-8	D3301	G-13	Q3001	J-13
D3073	E-8	D3302	G-13	Q3002	J-13
D3111	B-13	D3401	H-13	Q3081	D-9
D3112	C-13	D3402	H-13		
D3151	C-13	D3551	J-14		
D3152	D-13	D3552	J-14		

6-8. SCHEMATIC DIAGRAM – MAIN BOARD (1/10) –

• See page 54 for IC Block Diagrams.

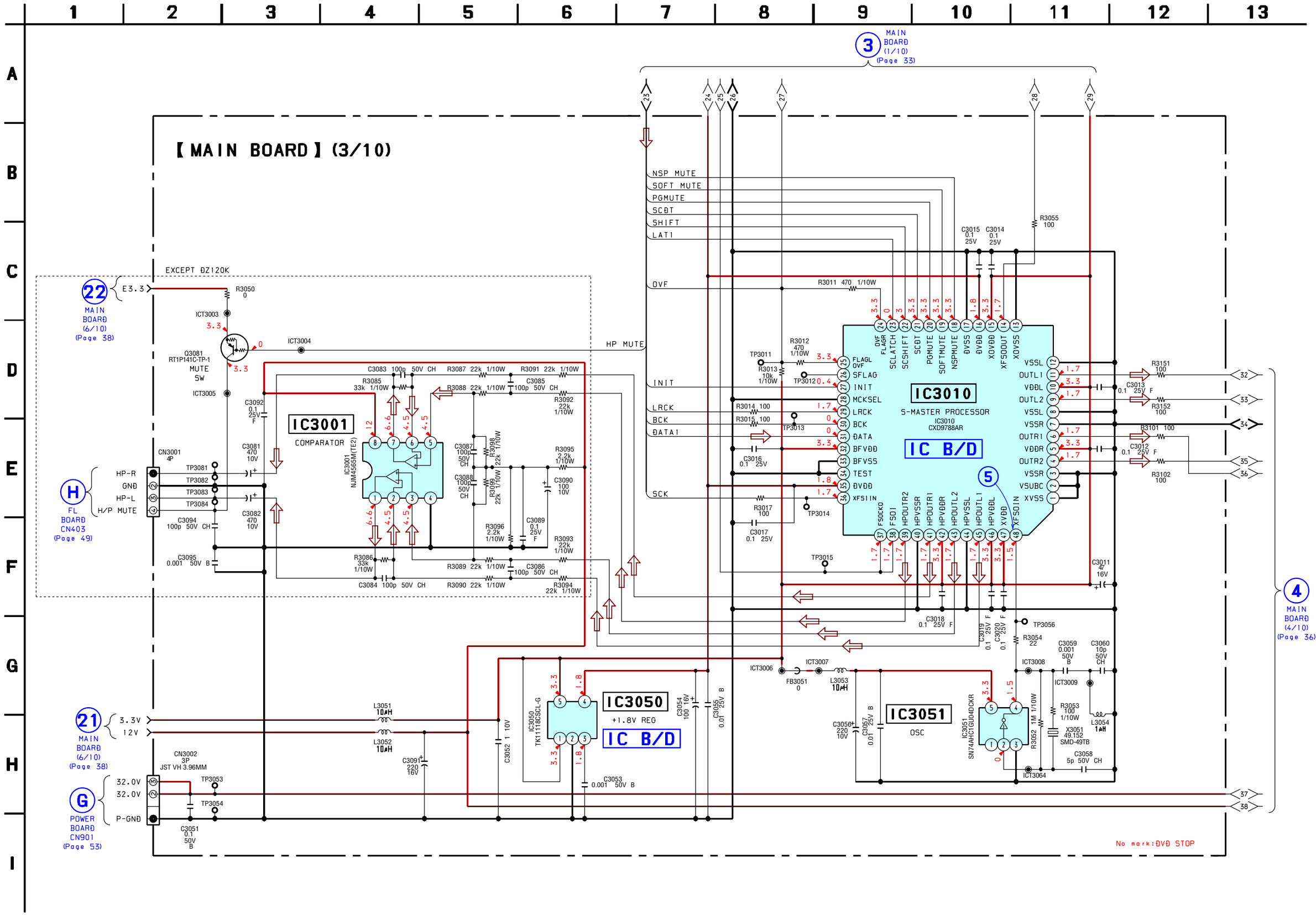


6-9. SCHEMATIC DIAGRAM – MAIN BOARD (2/10) –

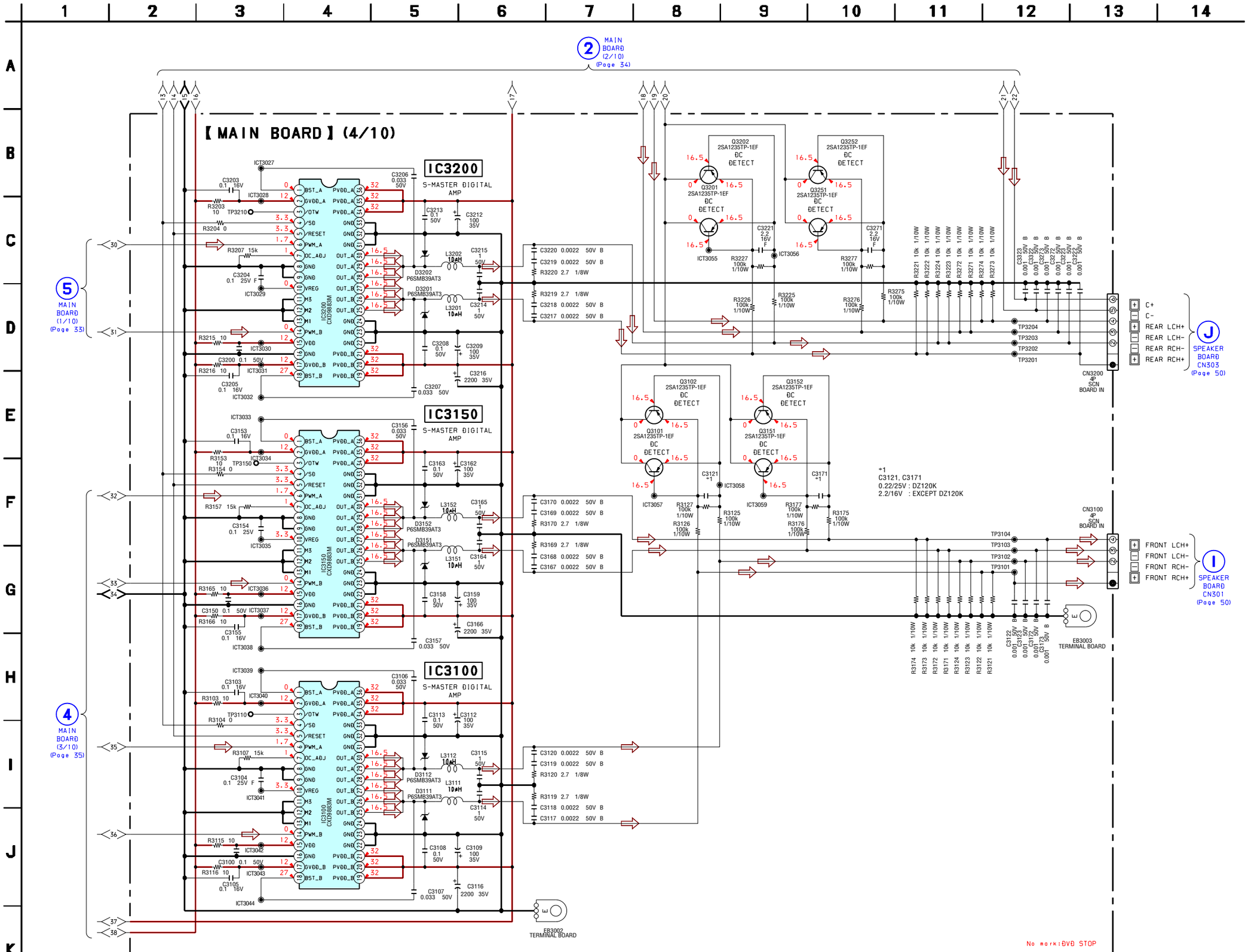


6-10. SCHEMATIC DIAGRAM – MAIN BOARD (3/10) –

• See page 25 for Waveform. • See page 54 for IC Block Diagrams.

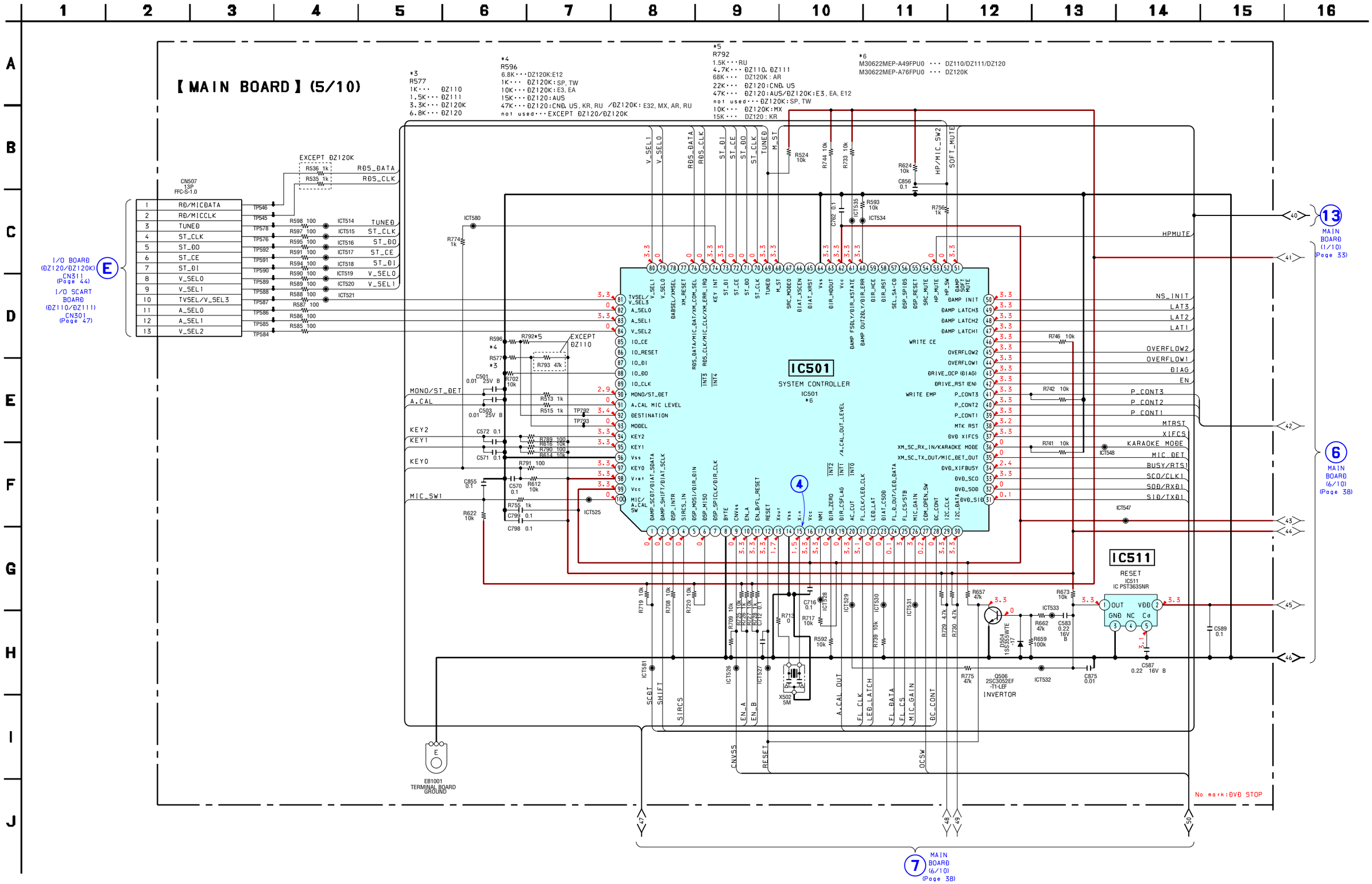


6-11. SCHEMATIC DIAGRAM – MAIN BOARD (4/10) –

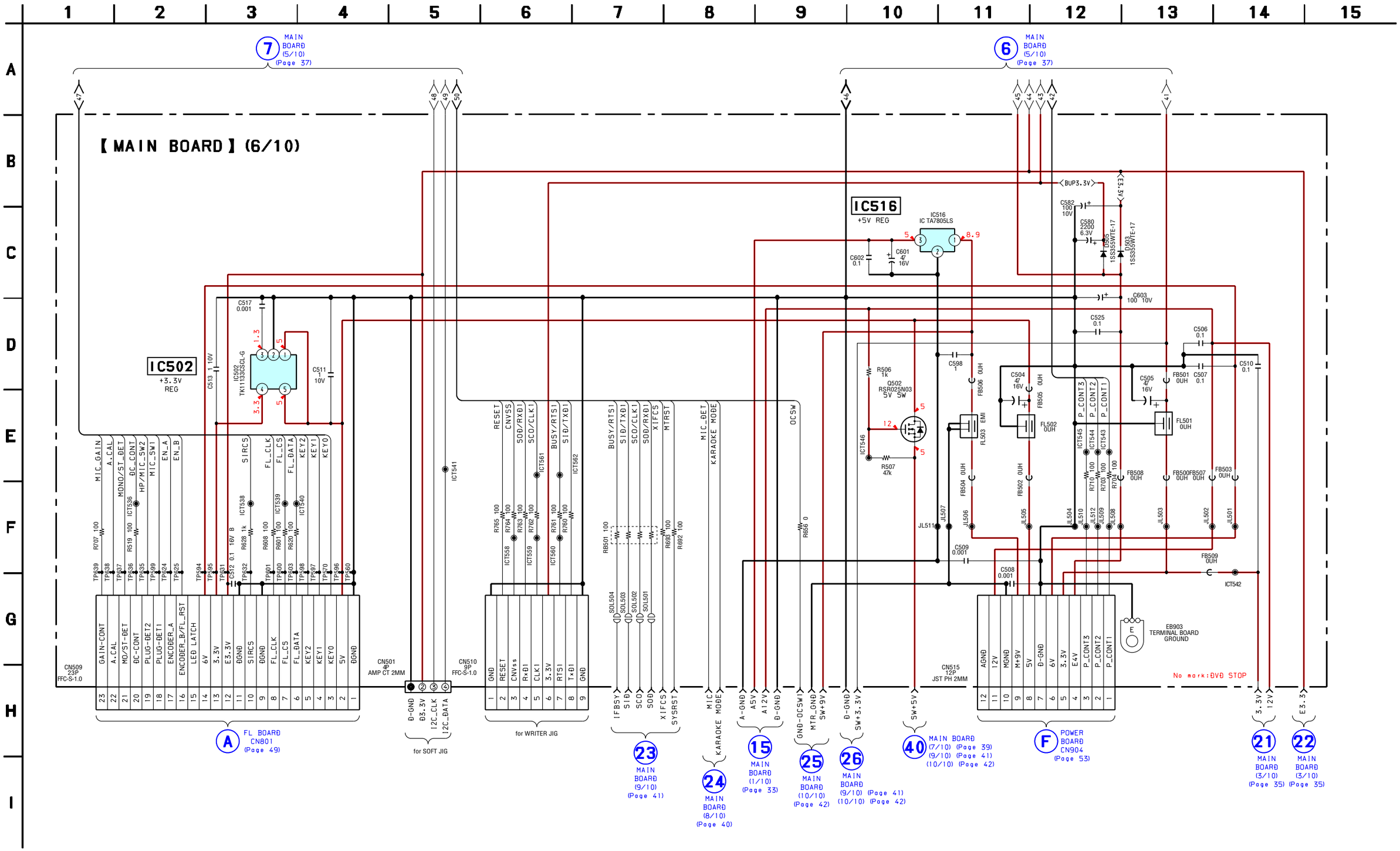


6-12. SCHEMATIC DIAGRAM – MAIN BOARD (5/10) –

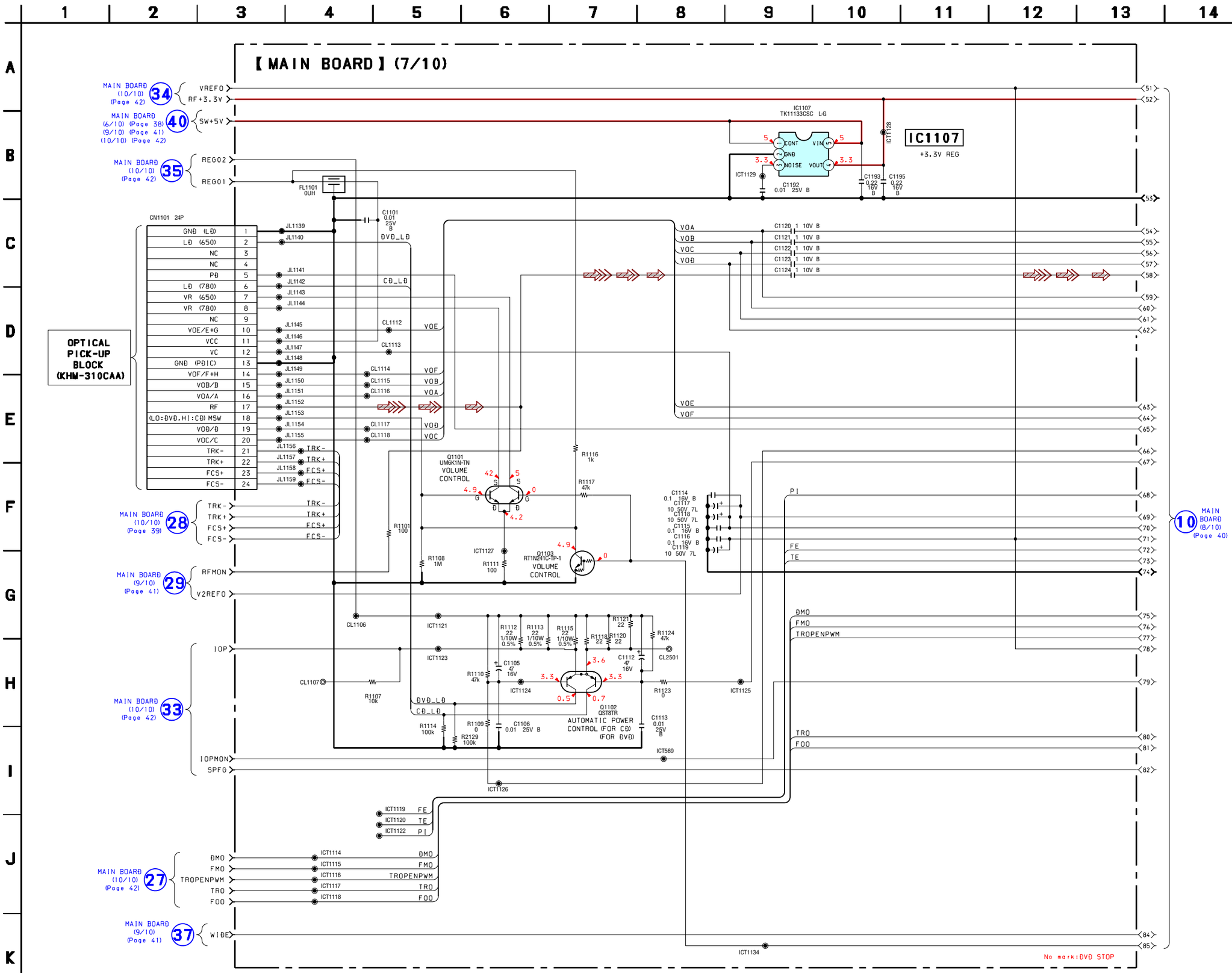
• See page 25 for Waveform. • See page 56 for IC Pin Function Description.



6-13. SCHEMATIC DIAGRAM – MAIN BOARD (6/10) –

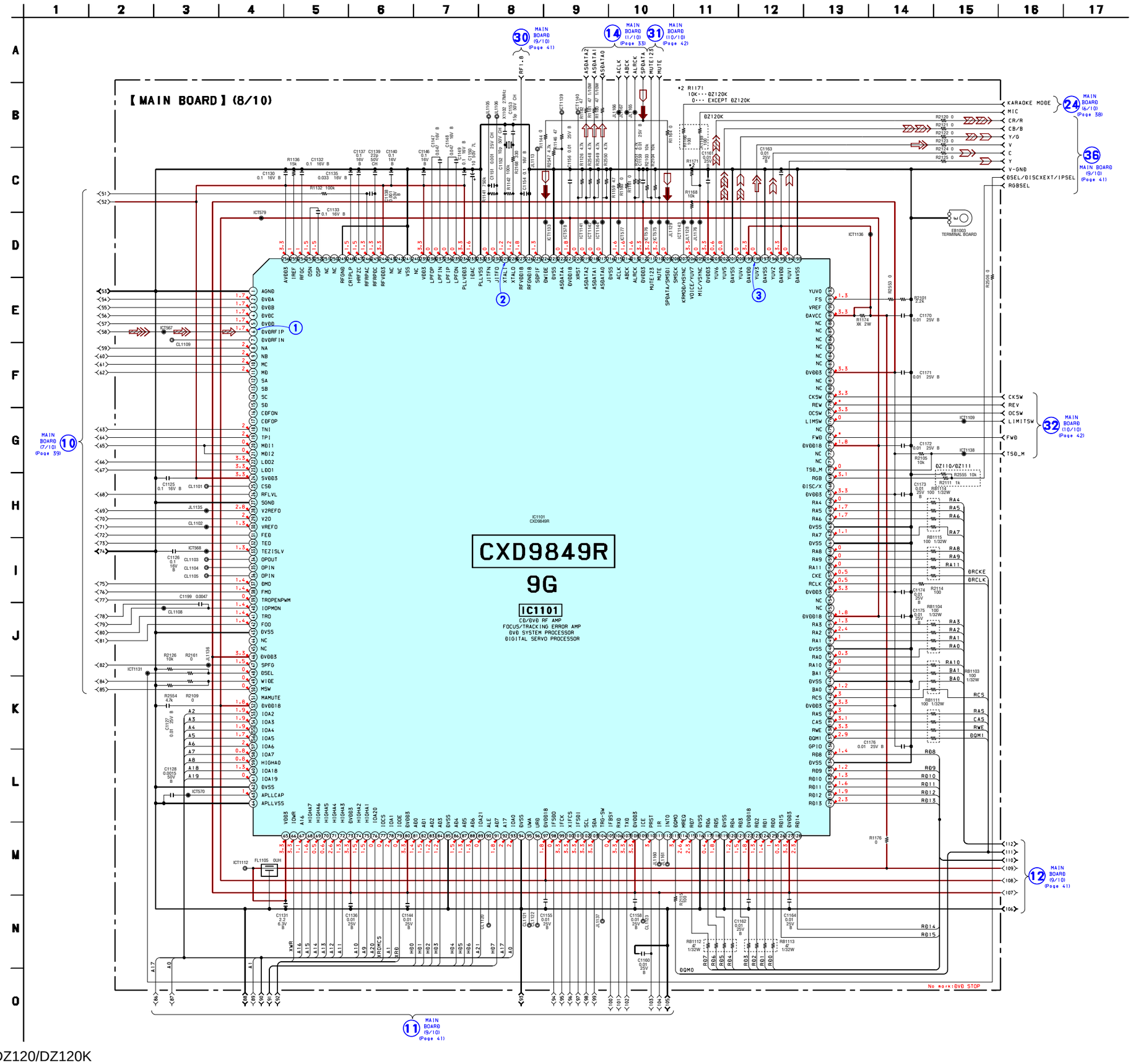


6-14. SCHEMATIC DIAGRAM – MAIN BOARD (7/10) –



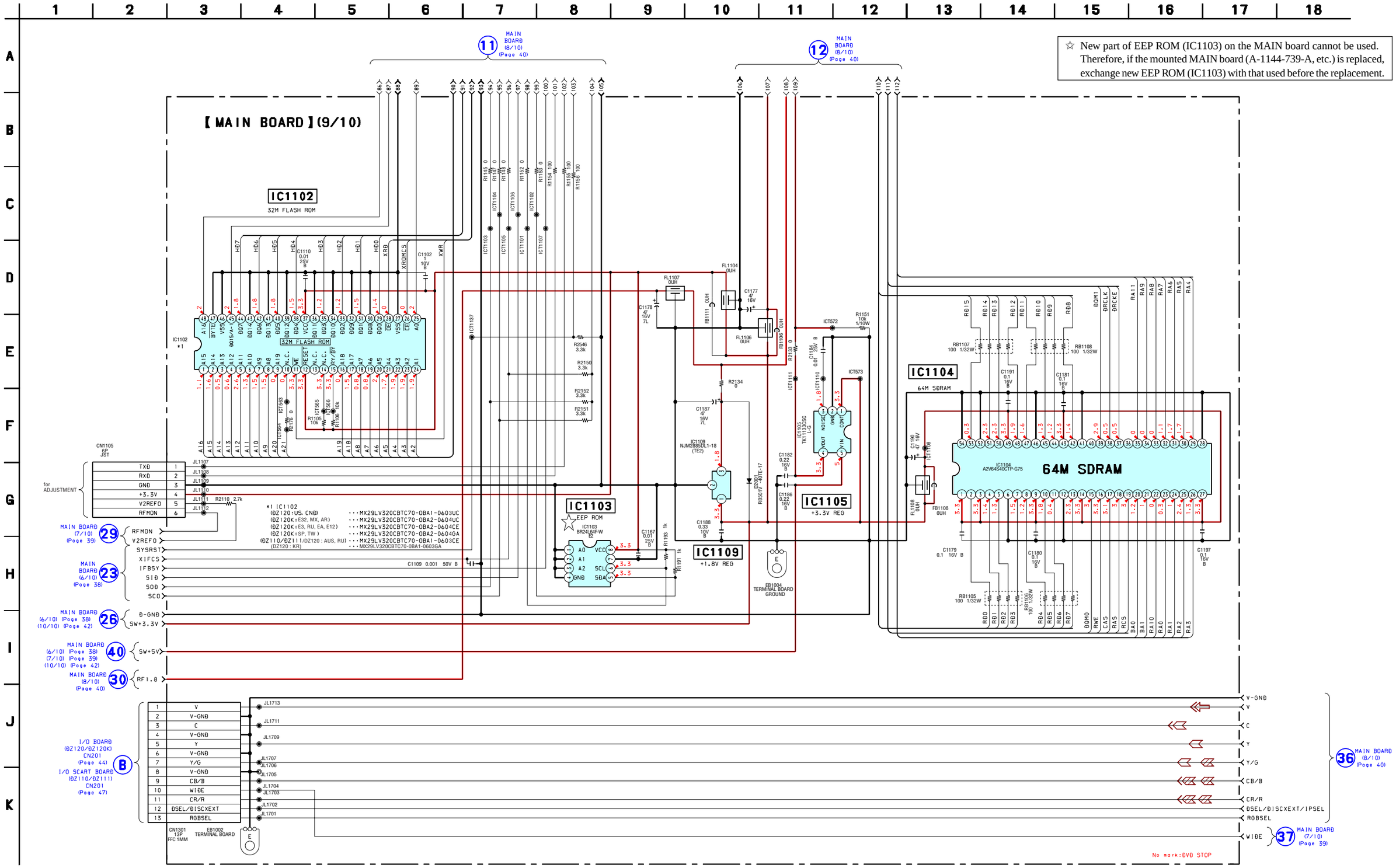
6-15. SCHEMATIC DIAGRAM – MAIN BOARD (8/10) –

• See page 25 for Waveforms. • See page 59 for IC Pin Function Description.

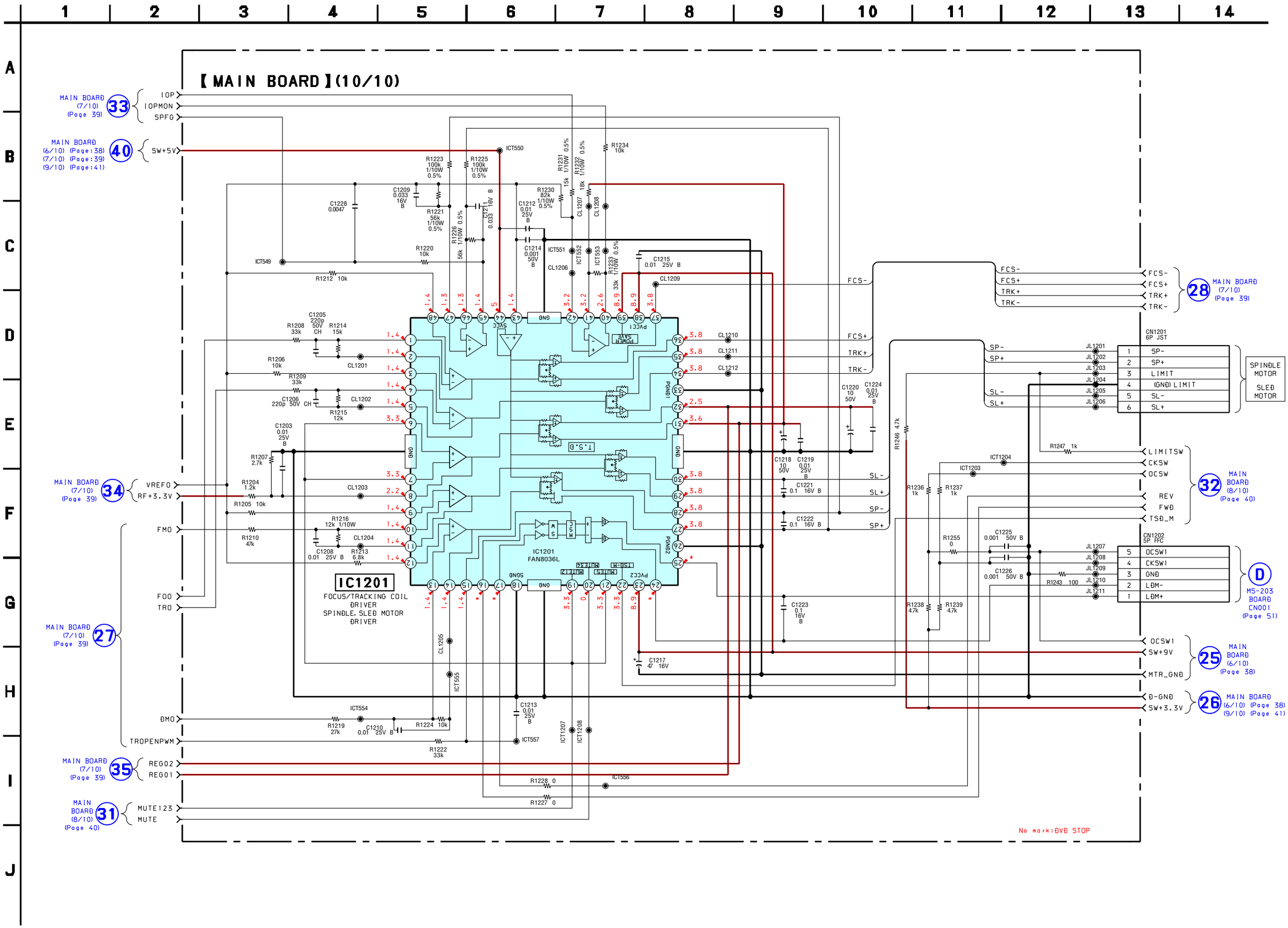


6-16. SCHEMATIC DIAGRAM – MAIN BOARD (9/10) –

☆ New part of EEP ROM (IC1103) on the MAIN board cannot be used. Therefore, if the mounted MAIN board (A-1144-739-A, etc.) is replaced, exchange new EEP ROM (IC1103) with that used before the replacement.

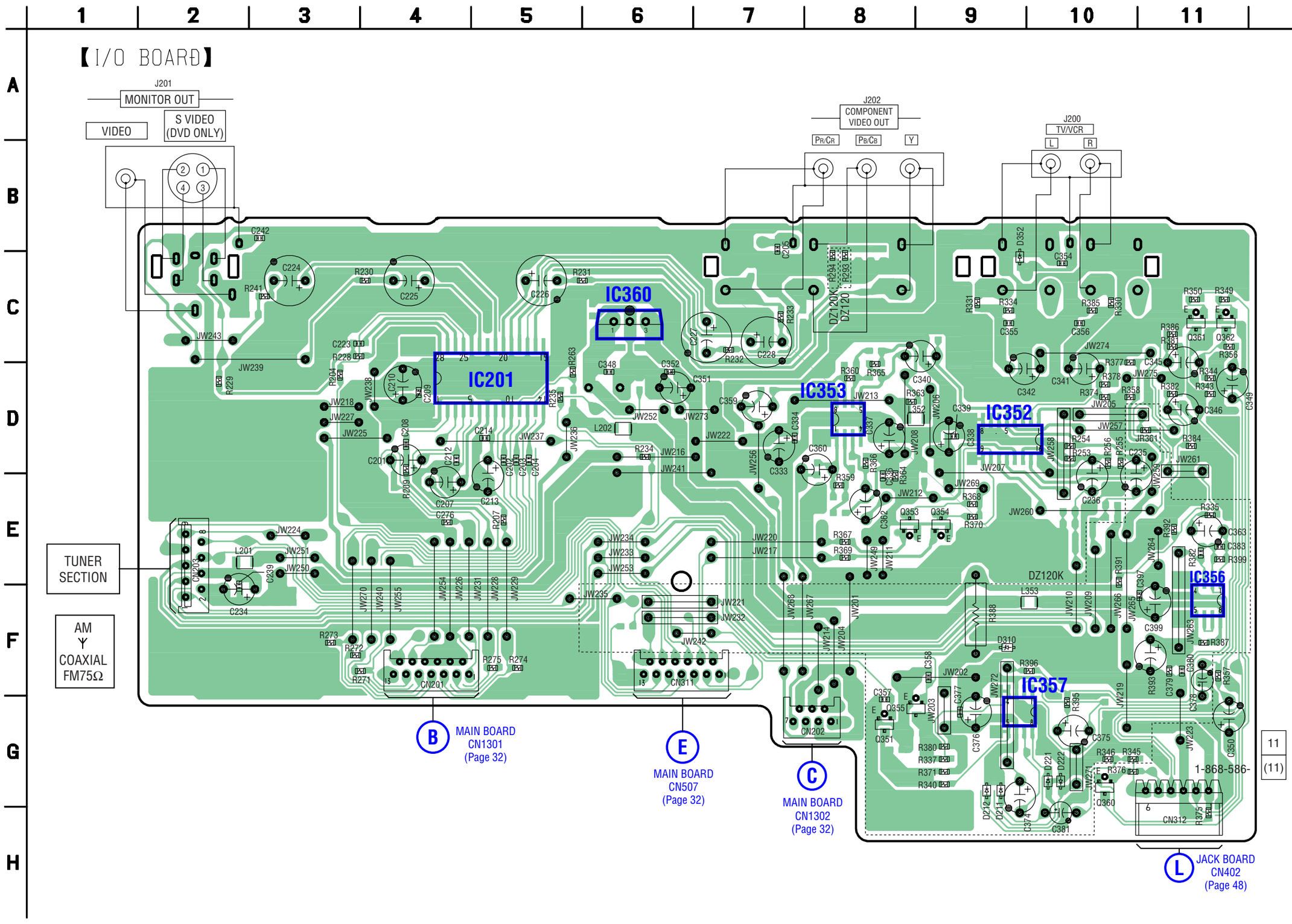


6-17. SCHEMATIC DIAGRAM – MAIN BOARD (10/10) –



6-18. PRINTED WIRING BOARD – I/O BOARD (DZ120/DZ120K) –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

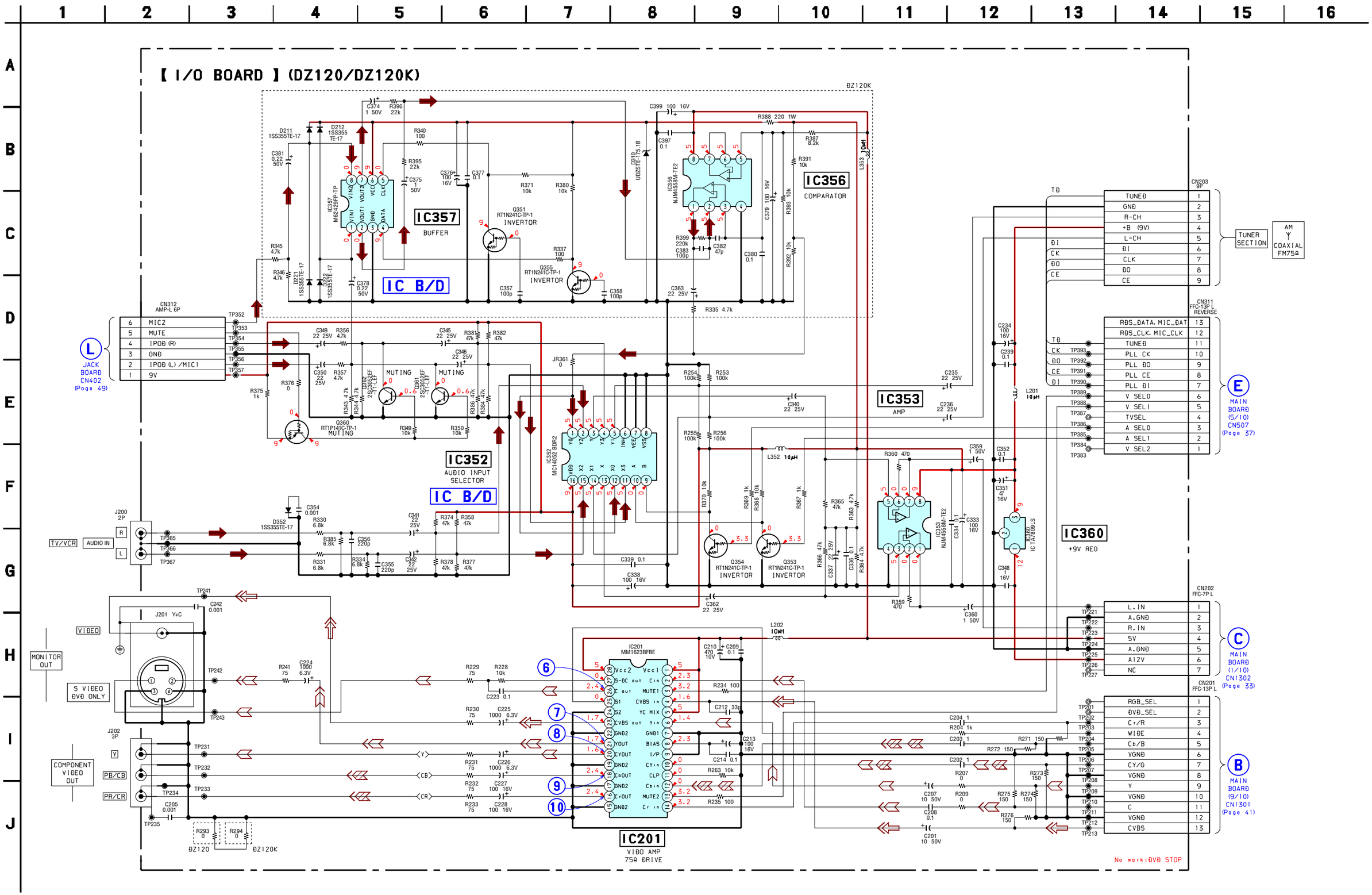


- **Semiconductor Location**

Ref. No.	Location
D211	G-9
D212	G-9
D221	G-10
D222	G-10
D310	F-9
D352	C-9
IC201	D-5
IC352	D-9
IC353	D-8
IC356	F-11
IC357	G-9
IC360	C-6
Q351	G-8
Q353	E-8
Q354	E-9
Q355	G-8
Q360	G-10
Q361	C-11
Q362	C-11

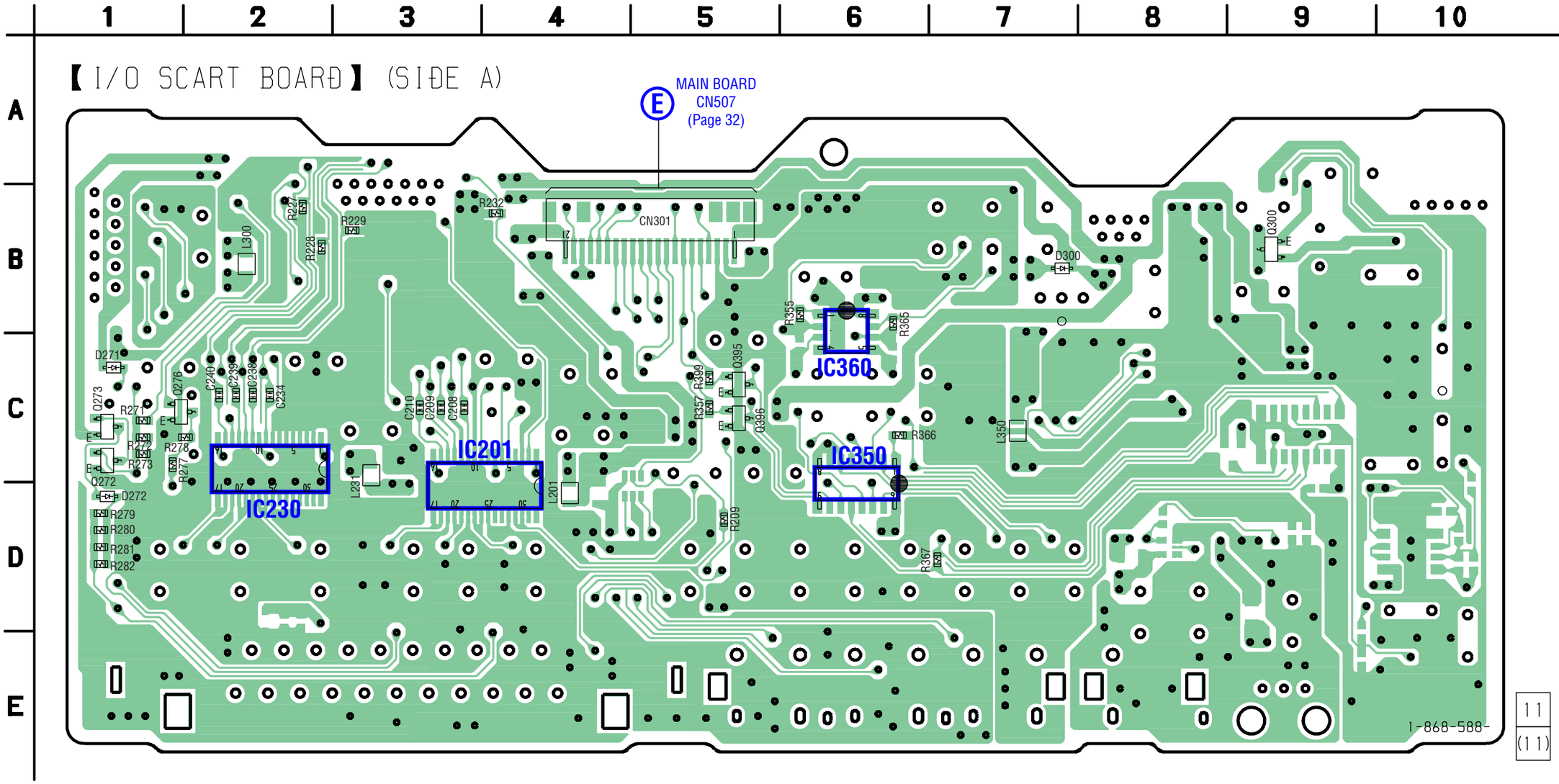
6-19. SCHEMATIC DIAGRAM – I/O BOARD (DZ120/DZ120K) –

• See page 25 for Waveforms. • See page 54 for IC Block Diagrams.



6-20. PRINTED WIRING BOARD – I/O SCART BOARD (SIDE A) (DZ110/DZ111) –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

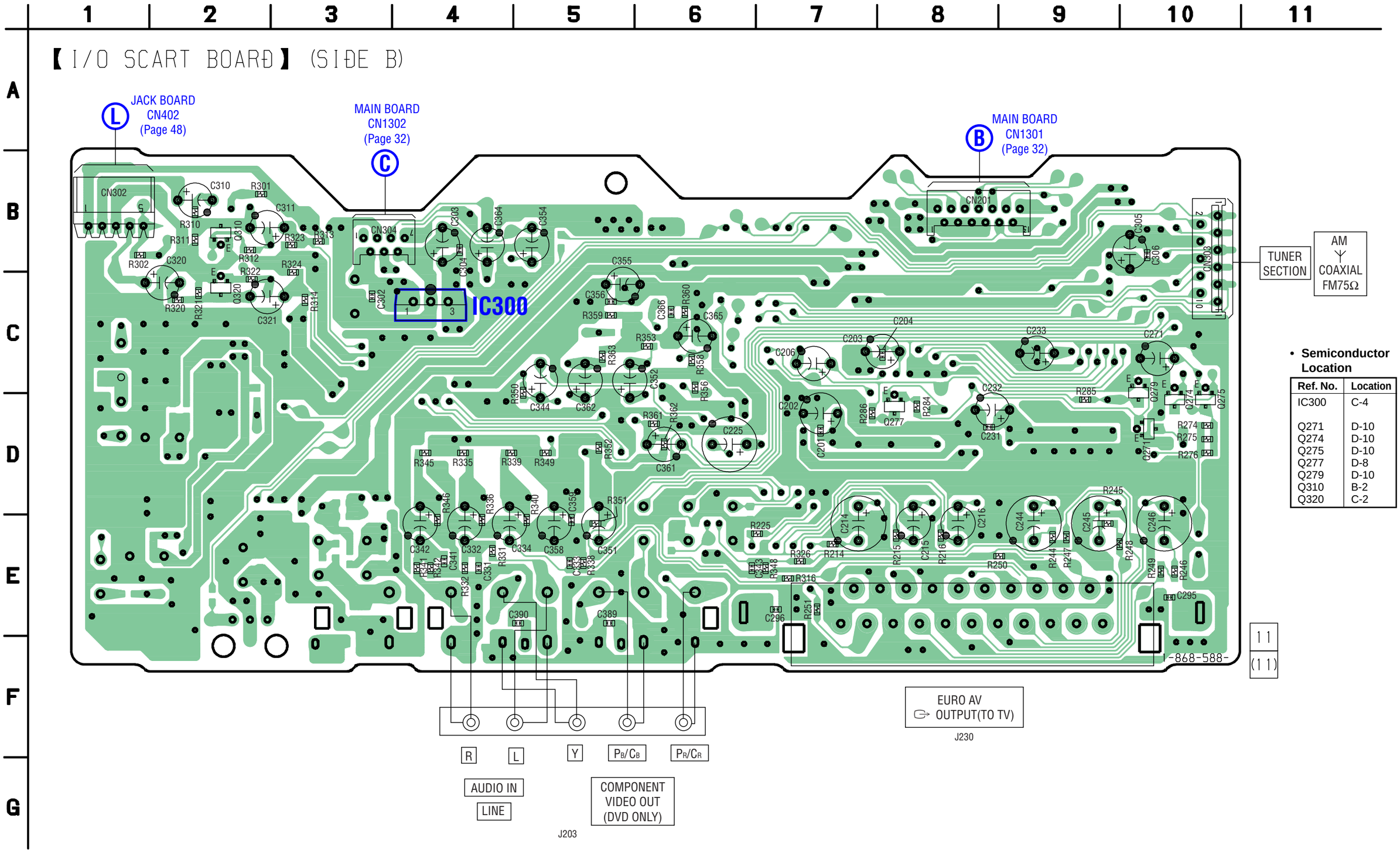


- **Semiconductor Location**

Ref. No.	Location
D271	C-1
D272	D-1
D300	B-7
IC201	C-4
IC230	C-2
IC350	C-6
IC360	C-6
Q272	C-1
Q273	C-1
Q276	C-1
Q300	B-9
Q395	C-5
Q396	C-5

6-21. PRINTED WIRING BOARD – I/O SCART BOARD (SIDE B) (DZ110/DZ111) –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

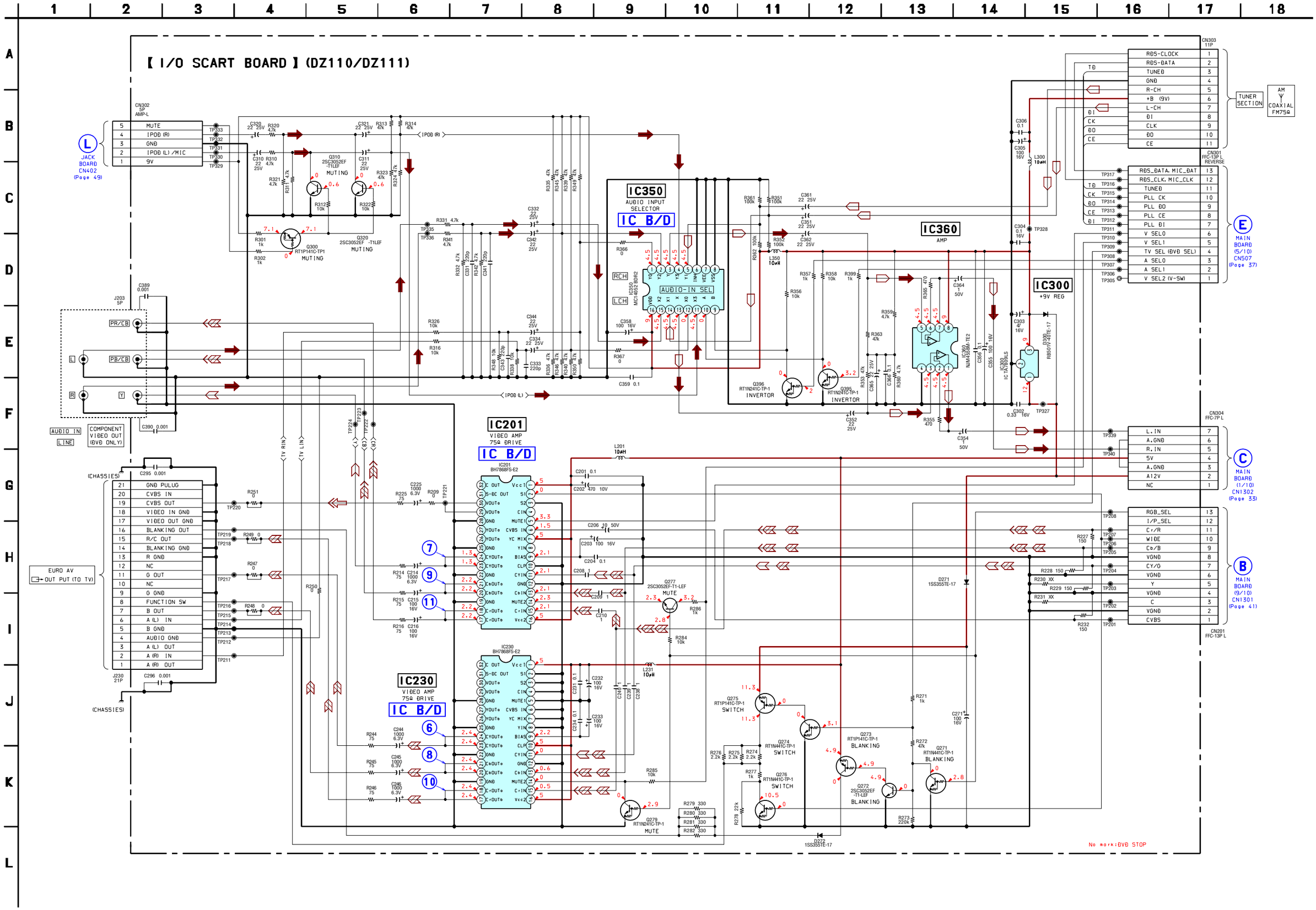


- **Semiconductor Location**

Ref. No.	Location
IC300	C-4
Q271	D-10
Q274	D-10
Q275	D-10
Q277	D-8
Q279	D-10
Q310	B-2
Q320	C-2

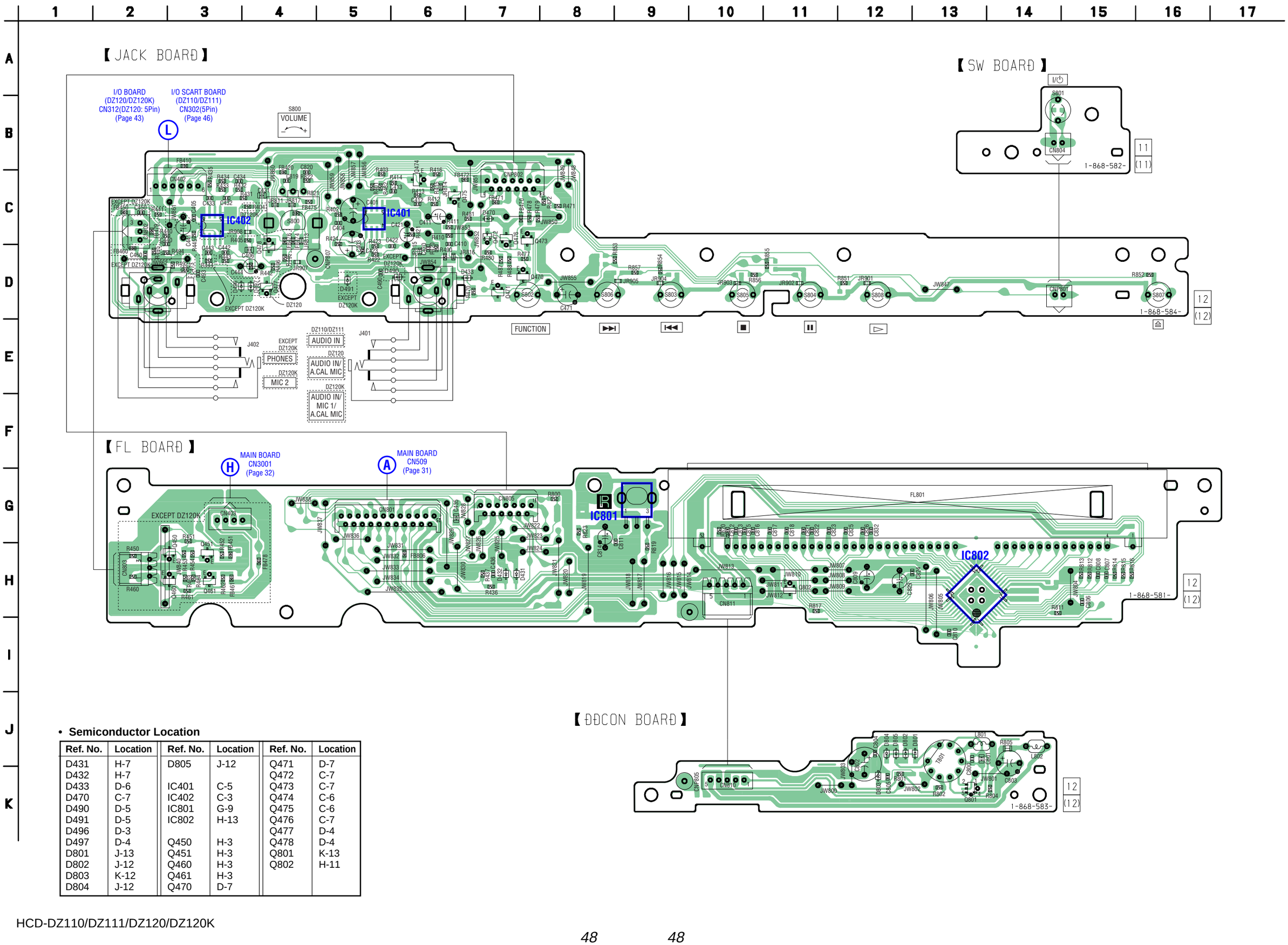
6-22. SCHEMATIC DIAGRAM – I/O SCART BOARD (DZ110/DZ111) –

• See page 25 for Waveforms. • See page 54 for IC Block Diagrams.



6-23. PRINTED WIRING BOARD – PANEL SECTION –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

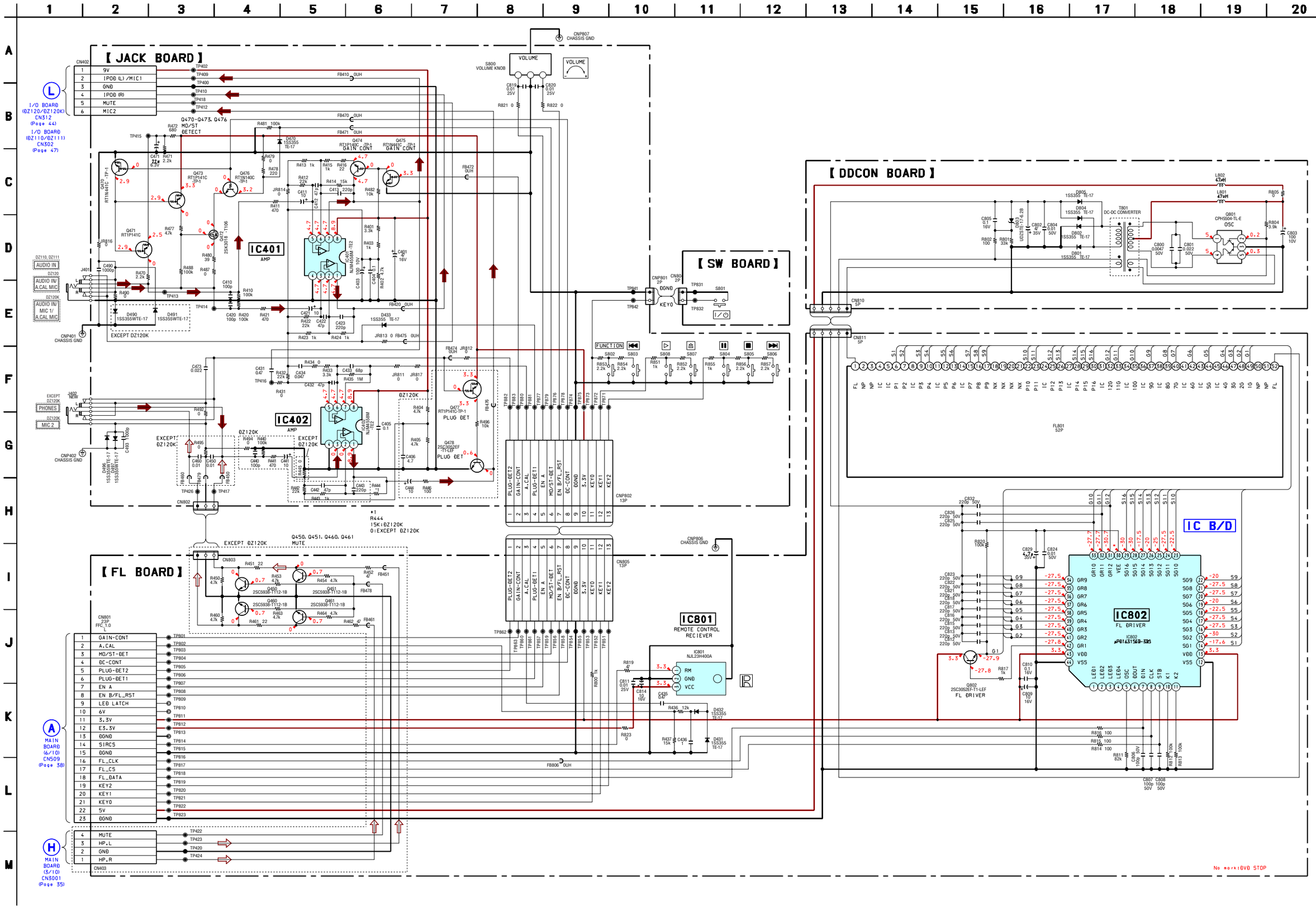


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D431	H-7	D805	J-12	Q471	D-7
D432	H-7			Q472	C-7
D433	D-6	IC401	C-5	Q473	C-7
D470	C-7	IC402	C-3	Q474	C-6
D490	D-5	IC801	G-9	Q475	C-6
D491	D-5	IC802	H-13	Q476	C-7
D496	D-3			Q477	D-4
D497	D-4	Q450	H-3	Q478	D-4
D801	J-13	Q451	H-3	Q801	K-13
D802	J-12	Q460	H-3	Q802	H-11
D803	K-12	Q461	H-3		
D804	J-12	Q470	D-7		

6-24. SCHEMATIC DIAGRAM – PANEL SECTION –

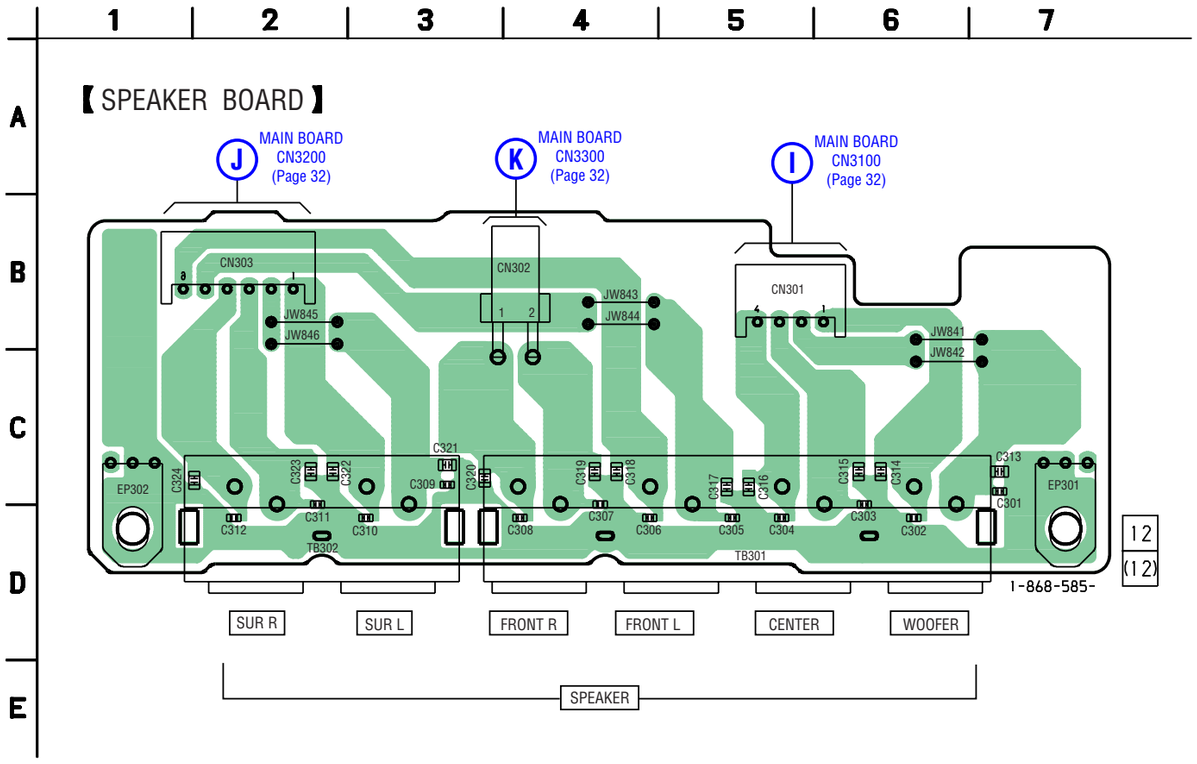
• See page 55 for IC Block Diagram.



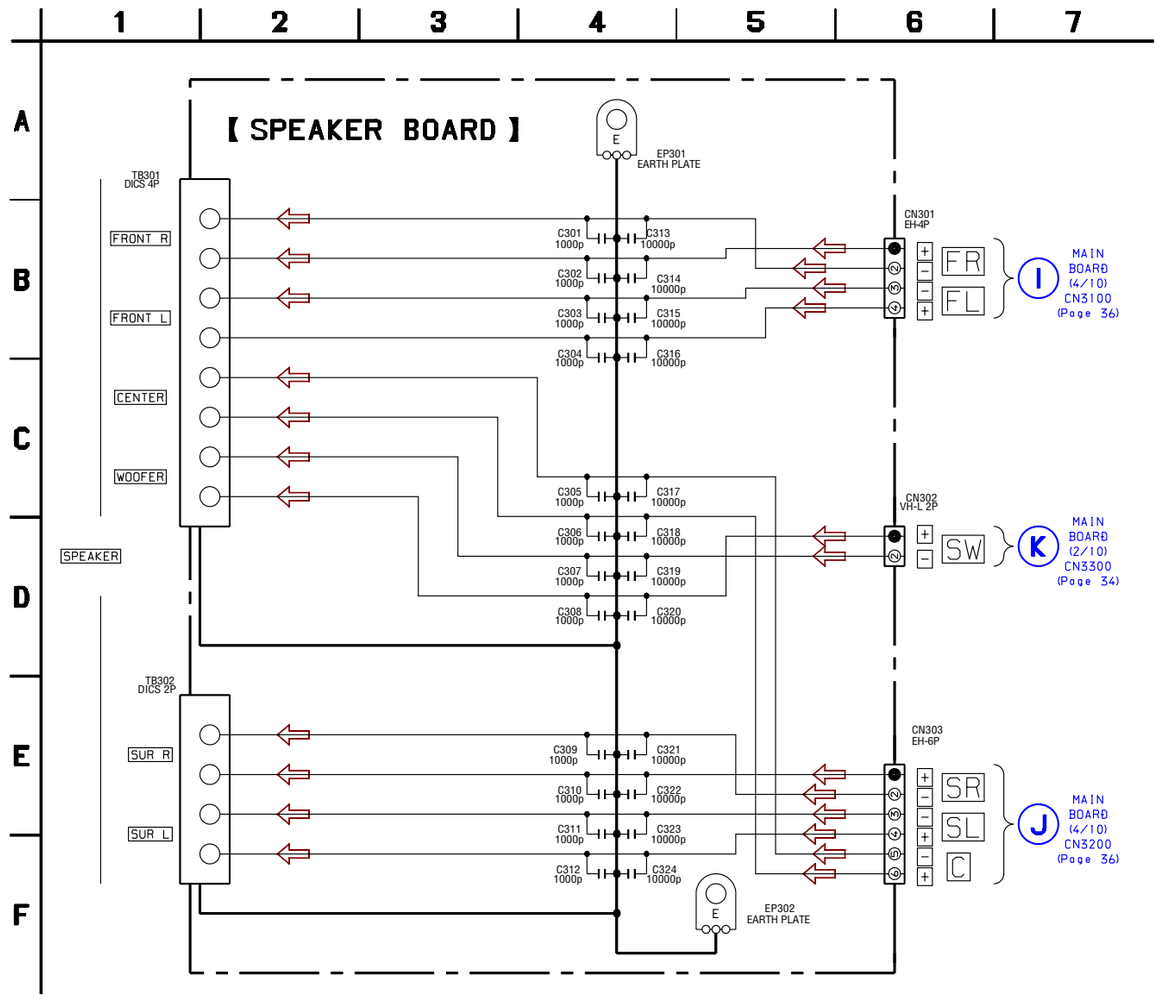
6-25. PRINTED WIRING BOARD – SPEAKER BOARD –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.



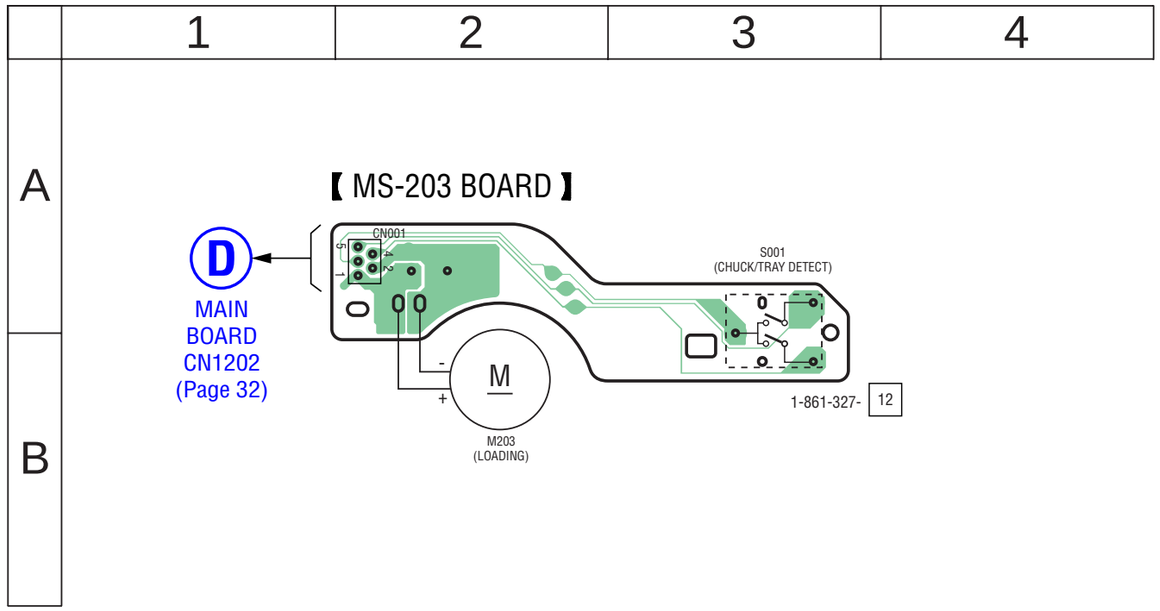
6-26. SCHEMATIC DIAGRAM – SPEAKER BOARD –



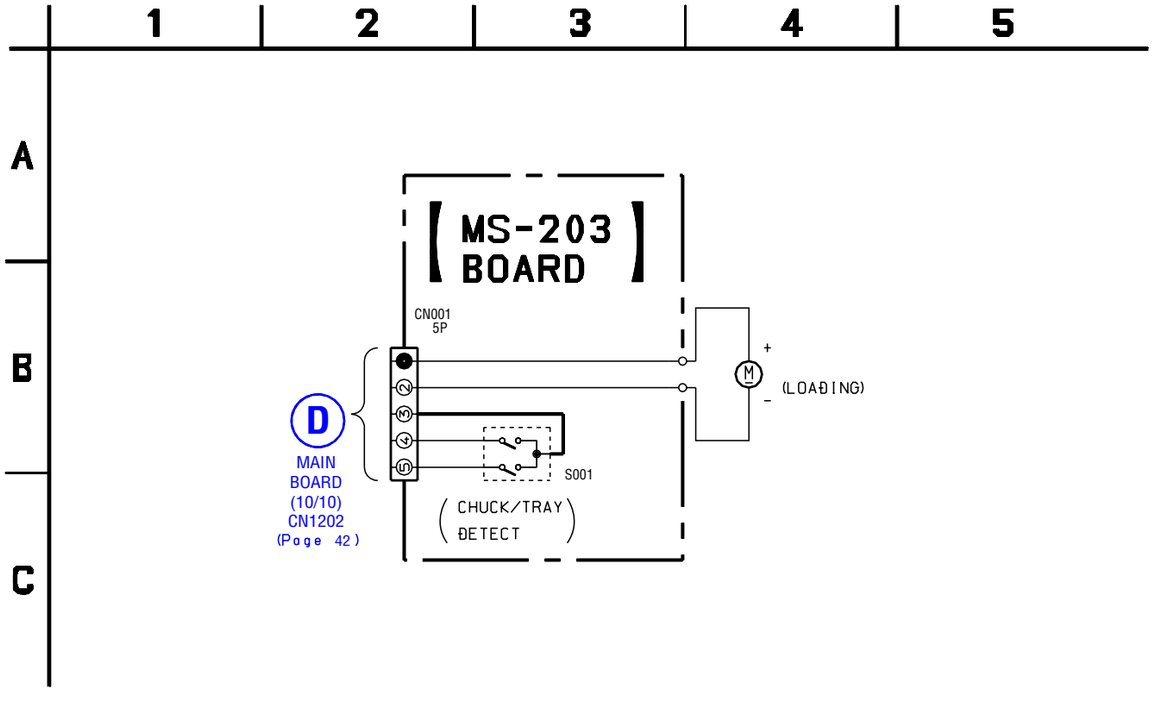
6-27. PRINTED WIRING BOARD – MS-203 BOARD –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.



6-28. SCHEMATIC DIAGRAM – MS-203 BOARD –

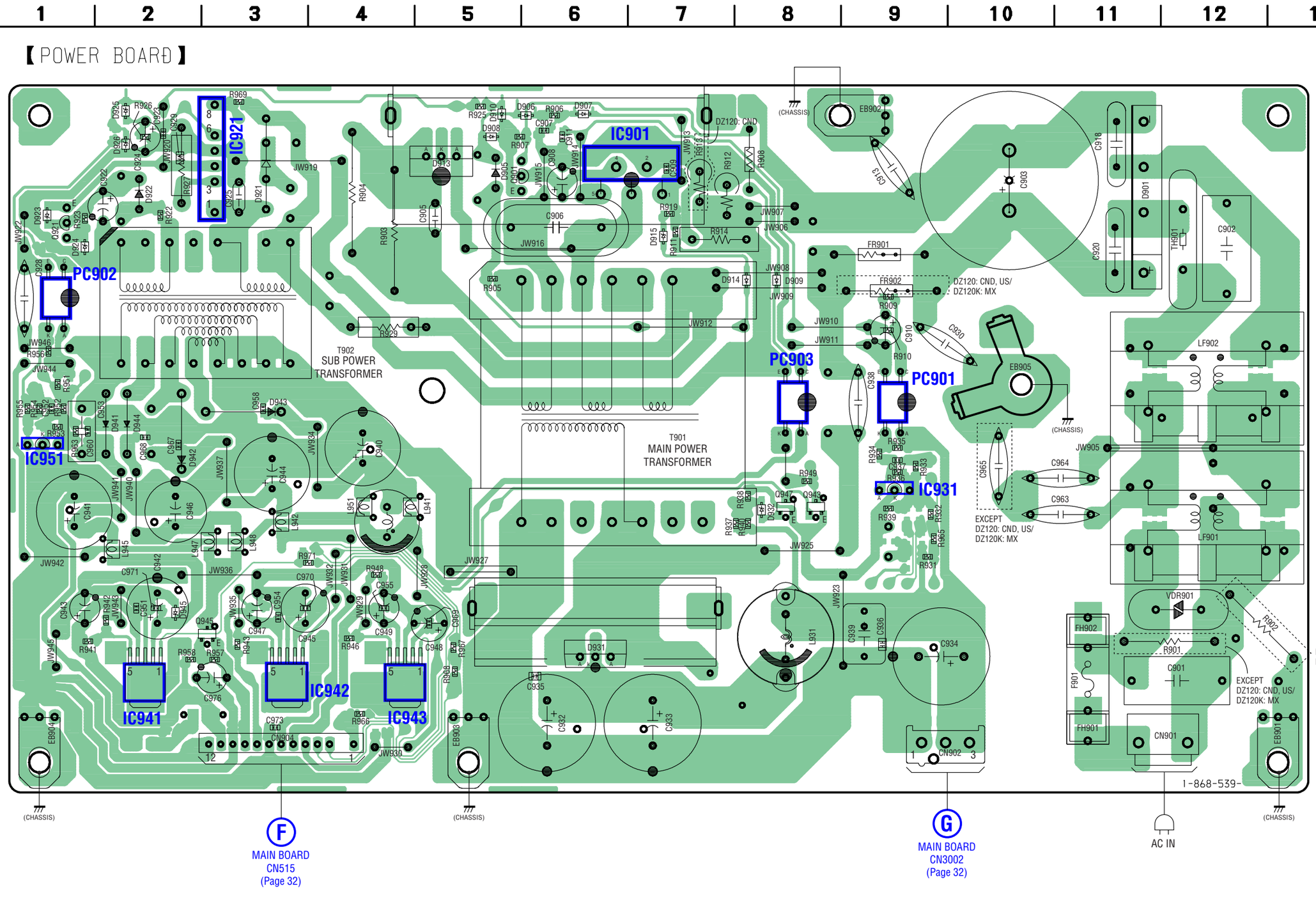


6-29. PRINTED WIRING BOARD – POWER BOARD –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

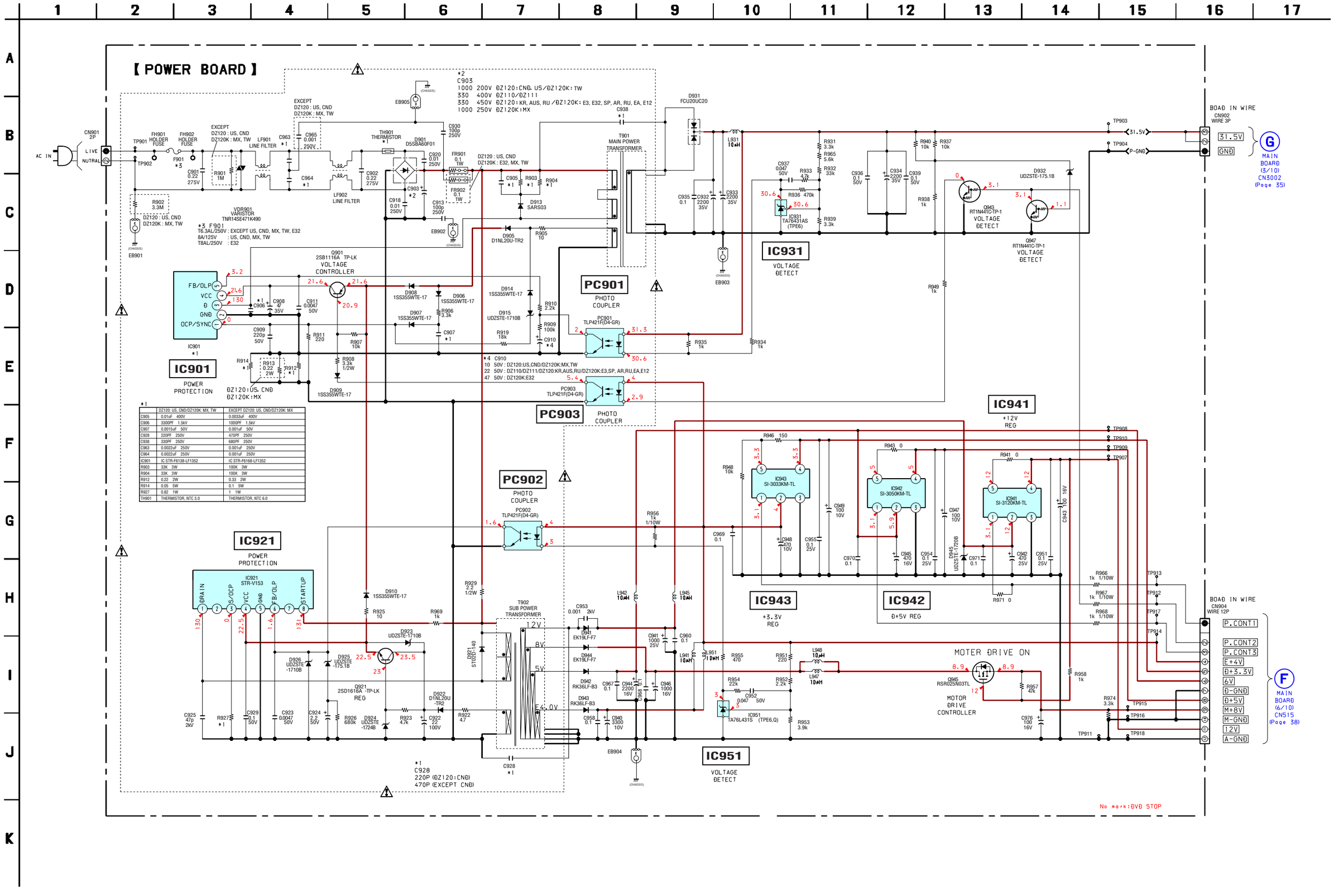
【POWER BOARD】



- **Semiconductor Location**

Ref. No.	Location
D901	B-11
D905	B-5
D906	A-6
D907	A-7
D908	B-5
D909	C-8
D910	A-5
D913	B-5
D914	C-8
D915	B-7
D921	B-3
D922	B-2
D923	B-1
D924	C-1
D925	A-1
D926	B-2
D931	F-6
D932	E-8
D941	D-2
D942	E-2
D943	D-3
D944	D-2
D945	F-2
IC901	B-6
IC921	B-3
IC931	E-9
IC941	G-2
IC942	G-3
IC943	G-4
IC951	D-1
PC901	D-9
PC902	C-1
PC903	D-8
Q901	B-5
Q921	B-1
Q943	E-8
Q945	F-3
Q947	E-8

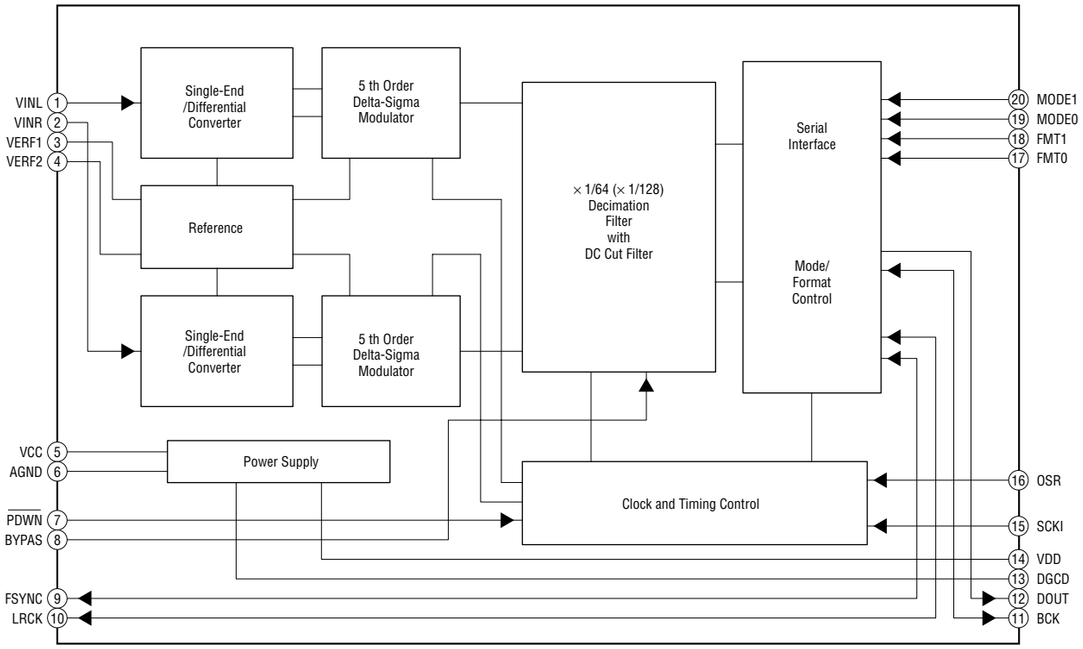
6-30. SCHEMATIC DIAGRAM – POWER BOARD –



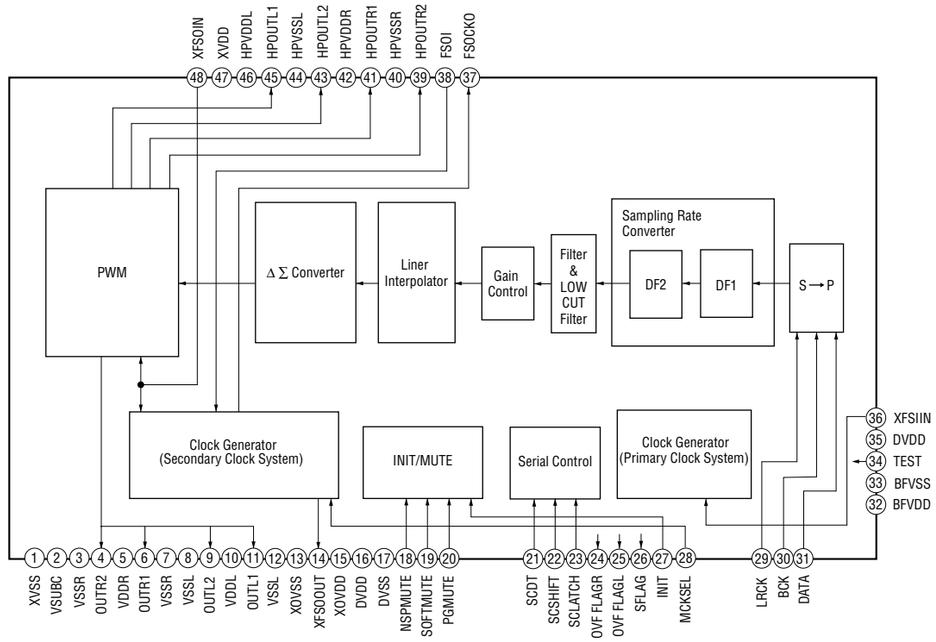
- **IC Block Diagrams**

– MAIN Board –

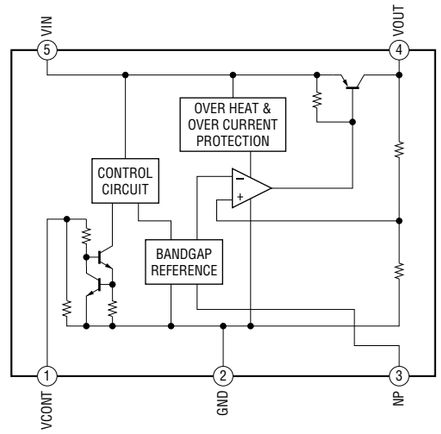
IC2200 PCM1803DBR



IC3010, IC3020, IC3030 CXD9788AR

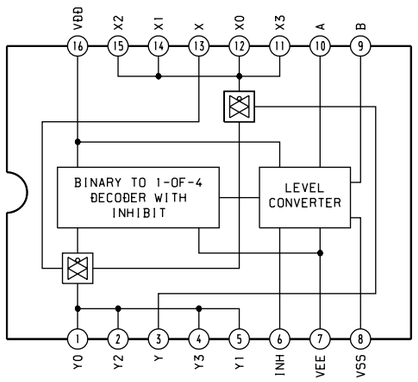


IC3050 TK1118CSCL-G

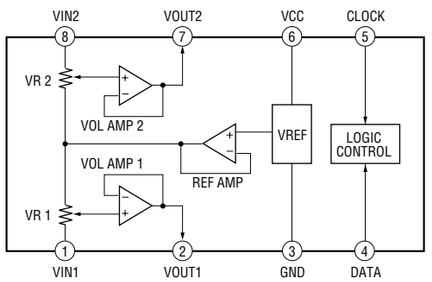


– I/O Board (DZ120/DZ120K) –

IC352 MC14052BDR2



IC357 (DZ120K) M62429FP-TP

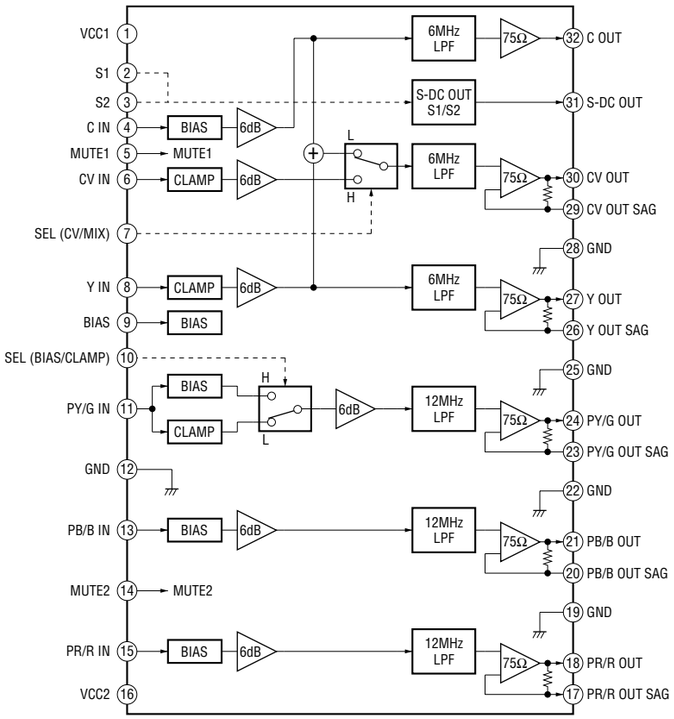


– I/O SCART Board (DZ110/DZ111) –

IC350 MC14052BDR2

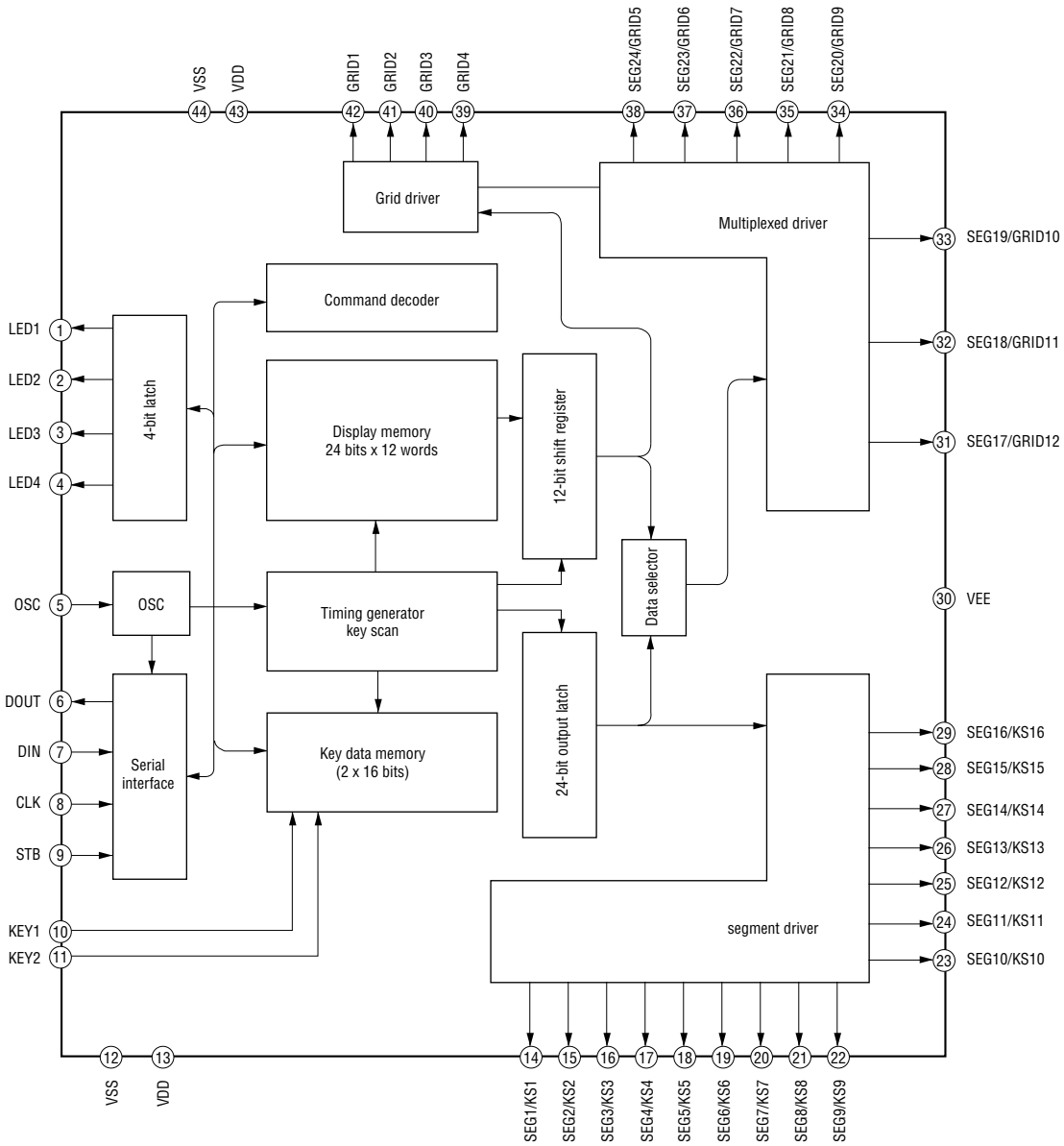
– I/O SCART Board (DZ110/DZ111) –

IC201, IC230 BH7868FS-E2



– FL Board –

IC802 uPD16315GB-3BS



• IC Pin Function Description

MAIN BOARD IC501 M30622MEP-A49FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP_SCDT/ DIAT_SDATA	O	DAMP processor and Diat data output
2	DAMP_SHIFT/ DIAT_SCLK	O	DAMP processor and Diat clock output
3	DSP_INTR	I	DSP interrupt (not used (Fixed to “L”))
4	SIRCS_IN	I	Sircs input
5	DSP_MOSI/DIR_DIN	O	DSP and DIR data output (not used (Open))
6	DSP_MOSI	I	DSP data input (not used (Fixed to “H” (+3.3 V)))
7	DSP_SPICLK/DIR_CLK	O	DSP/DIR clock output (not used (Open))
8	BYTE	I	External data bus (Ground terminal)
9	CNVSS	I	Change processor mode (Pull down)
10	EN_A	I	Volume control for ENCODER (Pull up)
11	EN_B/FL_RESET	I	Volume control for ENCODER (Pull up)
12	RESET	I	System reset signal input
13	XOUT	O	Crystal output for main clock (5MHz)
14	VSS	—	Ground terminal
15	XIN	I	Crystal input for main clock (5MHz)
16	VCC	—	Power supply (BUP+3.3V)
17	NMI	I	Not used (Fixed to “H” (+3.3 V))
18	DIR_ZERO	I	DIR zero data detect (not used (Fixed to “L”))
19	DIR_CSFLAG	I	Out level detect for auto calibration
20	AC_CUT	I	Detect AC-CUT
21	FL_CLK/LED_CLK	O	FL and LED driver clock output
22	LED_LAT	O	LED driver latch
23	DIAT_CSOD	I	DIAT CSOD signal input (not used (Fixed to “L”))
24	FL_D_OUT/LED_DATA	O	FL and LED driver data output
25	FL_CS/STB	O	FL driver chip select
26	MIC_GAIN	O	MIC gain control
27	CDM_OPEN_SW	I	CDM open switch input
28	DC_CONT	O	A.CAL MIC DC control output
29	I2C_CLK	I/O	I^2C clock input
30	I2C_DATA	I/O	I^2C data input
31	DVD_SID	O	Media Tek data out/Flash white TXD1
32	DVD_SOD	I	Media Tek data in/Flash white RXD1
33	DVD_SCO	I	Media Tek clock in/Flash white CLK1
34	DVD_XIFBUSY	O	Media Tek busy request/Flash white RTS1
35	XM_SC_TX_OUT/ MIC_DET_OUT	O	MIC detect status out to Media Tek
36	XM_SC_RX_IN/ KARAOKE MODE	I	KARAOKE mode information from Media Tek
37	DVD XIFCS	I	Media Tek chip select
38	MTK RST	O	Media Tek reset
39	P_CONT1	O	Control for power supply 1
40	P_CONT2	O	Control for power supply 2
41	P_CONT3	O	Control for power supply 3
42	DRIVE_RST (EN)	O	DAMP driver reset
43	DRIVE_OCP (DIAG)	I	DAMP driver shut down

Pin No.	Pin Name	I/O	Description
44	OVERFLOW1	I	DAMP processor F/C/S over flow detect
45	OVERFLOW2	I	DAMP processor SW over flow detect
46	WRITE CE	I	Flash write CE (not used (Fixed to “H” (+3.3 V)))
47	DAMP LATCH1	O	DAMP processor latch1
48	DAMP LATCH2	O	DAMP processor latch2
49	DAMP LATCH3	O	DAMP processor latch3
50	DAMP INIT	O	DAMP processor reset
51	DAMP SOFT MUTE	O	DAMP processor soft muting
52	HP_SW	I	Headphone detect
53	HP_MUTE	O	Headphone muting
54	SRC_MUTE	O	Sampling rate converter mute control (not used (Open))
55	DSP_RESET	O	DSP reset (not used (Open))
56	DSP_SPIDS	O	DSP device select (not used (Open))
57	SEL_SA-CD	O	DSP input data select (not used (Open))
58	DSP_RST	O	DIR reset (not used (Open))
59	DSP_HCE	O	DIR chip enable (not used (Open))
60	DAMP OUT2DLY/ DIR_ERR	I	Not used (Fixed to “L”)
61	DAMP FSDLY/ DIR_XSTATE	I	Not used (Fixed to “H” (+3.3 V))
62	VCC	—	Power supply (BUP 3.3V)
63	DIR_HDOUT	I	DIR data in (not used (Fixed to “H” (+3.3 V)))
64	VSS	—	Ground terminal
65	DIAT_XRST	O	DIAT reset (not used (Open))
66	DIAT_XSCEN	O	DIAT chip enable (not used (Open))
67	SRC_MODEO	O	Sampling rate convertor MODEO control (not used (Open))
68	M_ST	O	LINK (Multi STEREO) control
69	TUNED	I	TUNER tuned input
70	ST_CLK	O	TUNER clock output
71	ST_DC	I	TUNER data input
72	ST_CE	O	TUNER chip enable
73	ST_DI	O	TUNER data output
74	KEY INT	I	Wakeup from ECO mode by key input
75	RDS_CLK/MIC_CLK/ XM_ERR_IRQ	I	RDS clock input
76	RDS-DATA/MIC-DAT/ XM_COM_SEL	I	RDS data input
77	XM_RESET	O	XM reset (not used (Open))
78	DABSEL/XMSEL	O	XM clock select (not used (Open))
79	V_SEL0	O	VIDEO selector 0
80	V_SEL1	O	VIDEO selector 1
81	TVSEL/V_SEL3	O	TV control/VIDEO selector 3
82	A_SEL0	O	Audio selector 0
83	A_SEL1	O	Audio selector 1
84	V_SEL2	O	VIDEO selector 2
85	IO_CE	O	I/O expander IC chip enable (not used (Open))
86	IO_RESET	O	I/O expander IC reset (not used (Open))
87	IO_DI	O	I/O expander IC data output (not used (Open))
88	IO_DO	I	I/O expander IC data input (not used (Fixed to “L”))

Pin No.	Pin Name	I/O	Description
89	IO_CLK	O	I/O expander IC clock output (not used (Open))
90	MONO/ST_DET	I	Front jack MONO or STEREO detect
91	A.CAL MIC LEVEL	I	MIC level detect for auto calibration
92	DESTINATION	I	Destination select input
93	MODEL	I	Model select input
94	KEY2	I	Key input 2 input
95	KEY1	I	Key input 1 input
96	VSS	—	Ground terminal
97	KEY0	I	Key input 0 input
98	VREF	I	Reference voltage (E3.3V)
99	VCC	I	Power supply (BUP3.3V)
100	MIC/A.CAL SW	I	MIC insert switch

MAIN BOARD IC1101 CXD9849R
(CD/DVD RF AMP, FOCUS/TRACKING ERR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	AGND	—	Ground terminal
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN (not used (Open))
8	NA	I	DC coupled main-beam RF signal input A
9	NB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A (not used (Open))
13	SB	I	DC coupled sub-beam RF signal input B (not used (Open))
14	SC	I	DC coupled sub-beam RF signal input C (not used (Open))
15	SD	I	DC coupled sub-beam RF signal input D (not used (Open))
16	CDFON	I	CD focusing error negative input (not used (Open))
17	CDFOP	I	CD focusing error positive input (not used (Open))
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power PD monitor input
21	MDI2	I	Laser power PD monitor input
22	LDO2	O	Laser drive output
23	LDO1	O	Laser drive output
24	SVDD3	—	Power supply (RF+3.3V)
25	CSD	O	Central servo, positive main beam summing output (not used (Open))
26	RFLVL	O	RFRP low pass, or Positive main beam summing output (not used (Open))
27	SGND	—	Ground terminal
28	V2REFO	O	Reference voltage 2.8V
29	V2O	O	Reference voltage 2.0V
30	VREFO	O	Reference voltage 1.4V
31	FED	O	Focus error monitor output (not used (Open))
32	TEO	O	Tracking error monitor output (not used (Open))
33	TEZISLV	O	TE slicing level (not used (Fixed to “L”))
34	OPOUT	O	Op amp output (not used (Open))
35	OPIN	I	Op amp negative input (not used (Open))
36	OPIN	I	Op amp positive input (not used (Open))
37	DMO	O	Disk motor control output. PWM output
38	FMO	O	Feed motor control. PWM output
39	TROPENPWM	O	Tray PWM output/tray open output.
40	IOPMON	O	General PWM output
41	TRO	O	Tracking servo output
42	FOO	O	Focus servo output
43	DVSS	—	Ground terminal
44	NC	—	USB port DPLUS analog pin (not used (Open))
45	NC	—	USB port DMINUS analog pin (not used (Open))
46	DVDD3	—	Power supply (SW+3.3V)
47	SPFG	I	Motor hall sensor input

Pin No.	Pin Name	I/O	Description
48	DSEL	—	Not used (Fixed to “L”)
49	WIDE	I	Wide switch signal input terminal
50	MSW	I	Mute signal control input
51	MAMUTE	O	MAMUTE signal output to system controller (IC501) (not used (Open))
52	DVDD18	—	Power supply (+1.8V from IC1109)
53 to 58	IOA 2 to 7	O	Address bus 2 to 7 output to PROM (IC1102)
59	HIGHA0	O	Address bus 8 output to PROM (IC1102)
60, 61	IOA18, 19	O	Address bus 18, 19 output to PROM (IC1102)
62	DVSS	—	Ground terminal
63	APLLCAP	I	APLL external capacitance connection
64	APLLVSS	—	Ground terminal
65	VDD3	—	Power supply (+3.3V from IC1105)
66	I OWR	O	WE signal output to PROM (IC1102)
67	A16	O	Address bus 16 output to PROM (IC1102)
68 to 72	HIGHA 7 to 3	O	Address bus 15 to 11 output to PROM (IC1102)
73	DVDD3	—	Power supply (SW+3.3V)
74, 75	HIGHA 2, 1	O	Address bus 10, 9 output to PROM (IC1102)
76	IOA20	O	Address bus 20 output to PROM (IC1102)
77	IOCS	O	CE signal output to PROM (IC1102)
78	IOA1	O	Address bus 1 output to PROM (IC1102)
79	IOOE	O	OE signal output to PROM (IC1102)
80	DVDD3	—	Power supply (SW+3.3V)
81 to 84	AD 0 to 3	I	Data bus 0 to 3 input from PROM (IC1102)
85	DVSS	—	Ground terminal
86 to 88	AD 4 to 6	I	Data bus 4 to 6 input from PROM (IC1102)
89	IOA21	O	Address bus 21 output to PROM (IC1102)
90	ALE	O	Address latch enable (not used (Open))
91	AD7	I	Data bus 7 input from PROM (IC1102)
92	A17	O	Address bus 17 output to PROM (IC1102)
93	IOA0	O	Address bus 0 output to PROM (IC1102)
94	DVSS	—	Ground terminal
95	UWA	I	System controller write strobe (not used (Open))
96	URD	I	System controller read strobe (not used (Open))
97	DVDD18	—	Power supply (+1.8V from IC1109)
98	IFSDO	I	DVD SOD signal input from system controller (IC501)
99	IFCK	O	DVD SCO signal output to system controller (IC501)
100	XIFCS	I	DVD XIFCS signal input from system controller (IC501)
101	IFSDI	I	VIFBUSY signal input from system controller (IC501)
102	SCL	O	SCL signal output to EEPROM (IC1103)
103	SDA	O	SDA signal output to EEPROM (IC1103)
104	TRG-SW	O	RS232 RXD signal output (not used (Open))
105	IFBSY	I	RS232 TXD signal input from system controller (IC501)
106	RXD	I	RD232 RXD clock
107	TXD	I	RD232 TXD data
108	DVDD3	—	Power supply (SW+3.3V)
109	ICE	I	ICE mode enable (not used (Open))
110	PRST	I	MTRST signal input from system controller (IC501)
111	IR	I	IR control signal input (not used (Open))
112	INT0	I	External interrupt0 (not used (Open))

Pin No.	Pin Name	I/O	Description
113	DQMO	O	DQM0 signal output to SD-RAM (IC1104)
114	MREQ	I	DQM signal input (not used (Open))
115	RD7	I	Data bus 7 from SD-RAM (IC1104)
116	DVSS	—	Ground terminal
117, 118	RD 6, 5	I	Data bus 6, 5 from SD-RAM (IC1104)
119	DVSS	—	Ground terminal
120, 121	RD 4, 3	I	Data bus 4, 3 from SD-RAM (IC1104)
122	DVDD18	—	Power supply (+1.8V from IC1109)
123 to 125	RD 2 to 0	I	Data bus 2 to 0 from SD-RAM (IC1104)
126	RD15	I	Data bus 15 from SD-RAM (IC1104)
127	DVDD3	—	Power supply (SW+3.3V)
128	RD 14	I	Data bus 14 from SD-RAM (IC1104)
129 to 133	RD 13 to 9	I	Data bus 13 to 9 from SD-RAM (IC1104)
134	DVSS	—	Ground terminal
135	RD8	I	Data bus 8 from SD-RAM (IC1104)
136	GPI0	—	Not used (Open)
137	DQM1	O	DQM1 signal output to SD-RAM (IC1104)
138	RWE	O	WE signal output to SD-RAM (IC1104)
139	CAS	O	CAS signal output to SD-RAM (IC1104)
140	RAS	O	RAS signal output to SD-RAM (IC1104)
141	DVDD3	—	Power supply (SW+3.3V)
142	RCS	O	RCS signal output to SD-RAM (IC1104)
143	BA0	O	BAO signal output to SD-RAM (IC1104)
144	DVSS	—	Ground terminal
145	BA1	O	BA1 signal output to SD-RAM (IC1104)
146	RA10	O	Address bus 10 output to SD-RAM (IC1104)
147	RA0	O	Address bus 0 output to SD-RAM (IC1104)
148	DVSS	—	Ground terminal
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SD-RAM (IC1104)
152	DVDD18	—	Power supply (+1.8V from IC1109)
153	NC	—	Reference voltage (Not used (Open))
154	NC	—	Dram clock (Not used (Open))
155	DVDD3	—	Power supply (SW+3.3V)
156	RCLK	O	CLK signal output to SD-RAM (IC1104)
157	CKE	O	CKE signal output to SD-RAM (IC1104)
158 to 160	RA 11 to 8	O	Address bus 11 to 8 output to SD-RAM (IC1104)
161	DVSS	—	Ground terminal
162	RA7	O	Address bus 7 output to SD-RAM (IC1104)
163	DVSS	—	Ground terminal
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SD-RAM (IC1104)
167	DVDD3	—	Power supply (SW+3.3V)
168	DISC/X	—	Not used (Open)
169	RGB	O	RGB control signal output
170	TSD_M	O	TSD signal output to IC1201
171	NC	—	Not used (Open)
172	NC	—	Not used (Open)
173	DVDD18	—	Power supply (+1.8V)
174	FWD	O	FWD signal output to IC1201
175	NC	—	Not used (Open)

Pin No.	Pin Name	I/O	Description
176	LIMSW	O	LIMSW signal output to optical pick-up
177	OCSW	I	SEN signal input from system controller (IC501)/OCSW signal input
178	REW	—	REW signal output to IC1201
179	CKSW	I	CKSW signal input
180	NC	—	Not used (Open)
181	NC	—	Not used (Open)
182	DVDD3	—	Power supply (SW+3.3V)
183	NC	—	Not used (Open)
184	NC	—	Not used (Open)
185	NC	—	Not used (Open)
186	NC	—	Not used (Open)
187	NC	—	Not used (Open)
188	NC	—	Not used (Open)
189	DAVCC	—	Power supply (+3.3V from IC1105)
190	VREF	I	Bandgap reference voltage (not used (Open))
191	FS	O	Full scale adjustment (pull down)(Fixed to “L”)
192	YUV0	—	Not used (Open)
193	DAVSS	—	Ground terminal
194	YUV1	O	Y signal output to VIDEO AMP (IC201)
195	DAVDD	—	Power supply (+3.3V from IC1105)
196	YUV2	O	CHROMA signal output to VIDEO AMP (IC201)
197	DAVSS	—	Ground terminal
198	YUV3	O	VIDEO signal output to VIDEO AMP (IC201)
199	DAVDD	—	Power supply (+3.3V from IC1105)
200	YUV4	O	G signal output to VIDEO AMP (IC201)
201	DAVSS	—	Ground terminal
202	YUV5	O	B signal output to VIDEO AMP (IC201)
203	YUV6	O	R signal output to VIDEO AMP (IC201)
204	DVDD3	—	Power supply (SW+3.3V)
205	MIC/VSYNC	I	MIC_DET signal to IC501
206	VOICE/YUV7	—	Not used (Fixed to “H” (+3.3 V))
207	KRMOD/HSYNC	O	KARAOKE MODE signal to IC501
208	SMSCK	—	Not used (Open)
209	SPDATA/SMSDI	I	Audio data of SPDIF input
210	MUTE	O	MUTE signal to IC1201
211	MUTE123	O	MUTE123 signal to IC1201
212	DVDD3	—	Power supply (SW+3.3V)
213	ALRCK	I	Audio left/right channel clock
214	ABCK	O	Audio bit clock
215	ACLK	I	Audio DAC master clock
216	DVSS	—	Ground terminal
217	ASDATA0	O	Audio serial data 0
218	ASDATA1	O	Audio serial data 1
219	ASDATA2	O	Audio serial data 2
220	XRST	—	Not used (Fixed to “L”)
221	DVDD18	—	Power supply (+1.8V)
222	ASDATA4	O	Audio serial data (not used (Fixed to “L”))
223	DVSS	—	Ground terminal
224	DWIDE	—	To pin 209 of IC1101

Pin No.	Pin Name	I/O	Description
225	SDPIF	—	SPDIF output (not used (Open))
226	RFGND18	—	Ground terminal
227	RFVDD18	—	Power supply (RF+1.8V)
228	XTALO	O	Oscillator output signal (27MHz)
229	XTALI	I	Oscillator input signal (27MHz)
230	JITFO	O	RF jitter meter output
231	JITFN	I	Negative input of operation amplifier for RF jitter meter
232	PLLVSS	—	Ground terminal
233	IDAC	—	Not used (Fixed to “L”)
234	PLLVDD3	—	Power supply (RF+3.3V)
235	LPFON	O	Negative output of loop filter amplifier
236	LPFIP	I	Positive input of loop filter amplifier
237	LPFIN	I	Negative input of loop filter amplifier
238	LPFOP	O	Positive output of loop filter amplifier
239	VDD3	I	Power supply (RF+3.3V)
240	NC	I	Not used (Open)
241	VSS	—	Ground terminal
242	NC	—	Not used (Open)
243	NC	—	Not used (Open)
244	RFVDD3	—	Power supply (RF+3.3V)
245	RFRPDC	I	RFRP signal input
246	RFRPAC	I	RFRP signal input
247	HRFZC	I	High frequency RF ripple zero crossing
248	CRTPLP	O	Defect level filter capacitor connecting
249	RFGND	—	Ground terminal
250	NC	—	Not used (Open)
251	NC	—	Not used (Open)
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input (not used (Fixed to “L”))
256	AVDD3	—	Power supply (RF+3.3V)

SECTION 7
EXPLODED VIEWS

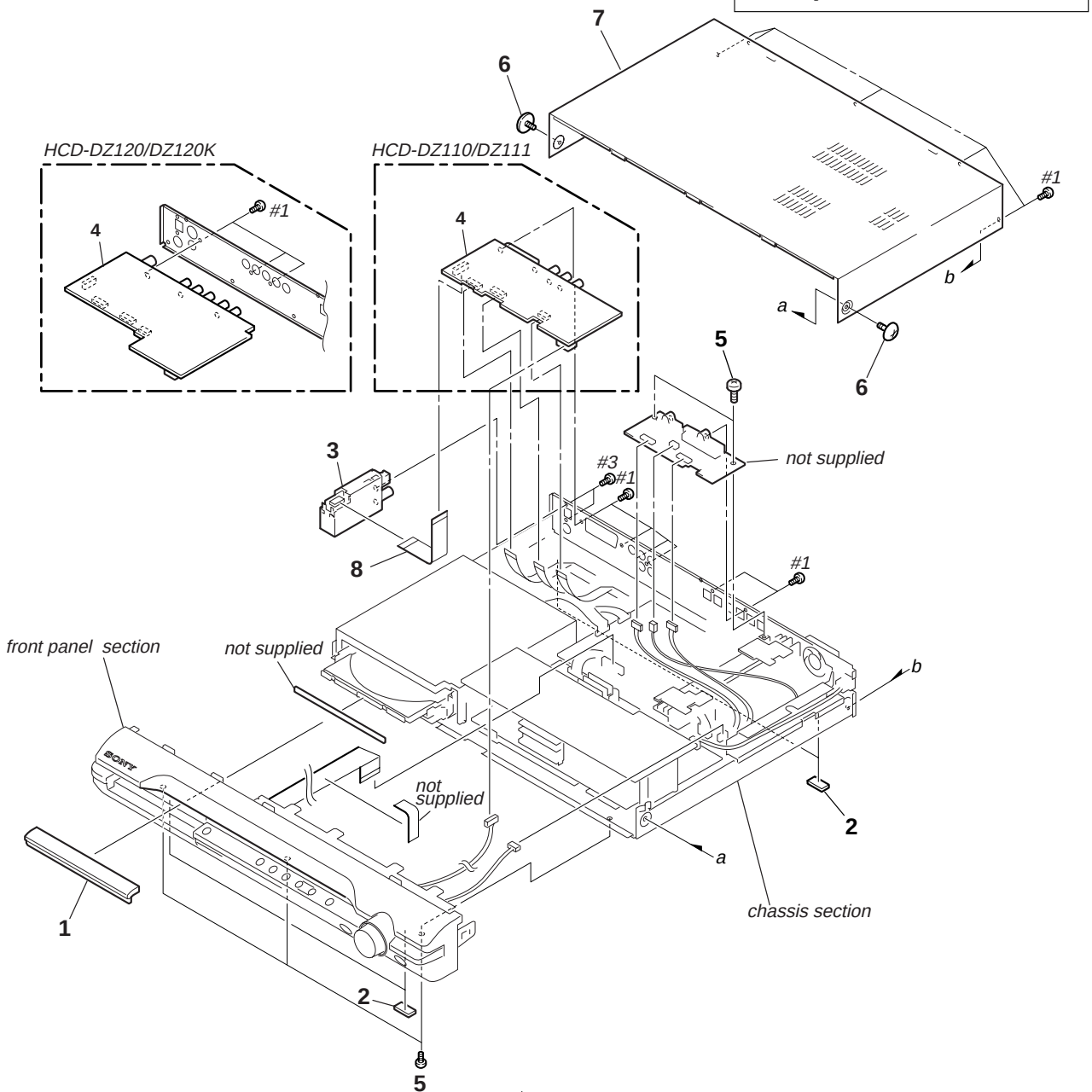
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  AUS : Australian Model
  AR : Argentina model
  CND : Canadian Model
  E3 : 240V AC area in E model
  E12 : 220-240V AC area in E model
  E32 : 110-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

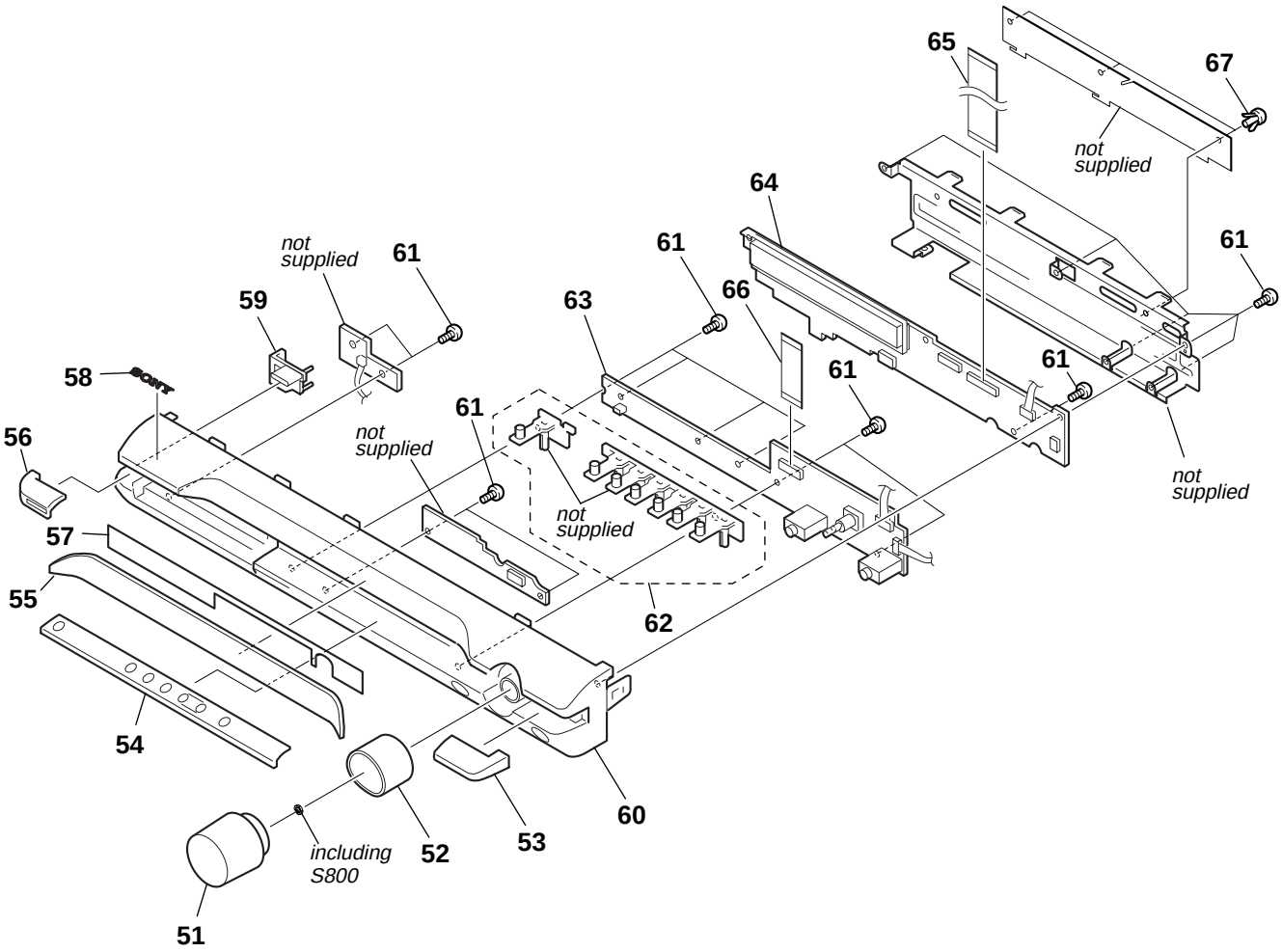
7-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	2-652-972-01	PANEL, LOADING	
2	4-232-478-41	FOOT	
3	1-693-700-11	TUNER (FM/AM) (TM10SCE) (DZ110/DZ111)	
3	1-693-701-11	TUNER (FM/AM) (TM10SKR) (DZ120: KR, RU/DZ120K: RU)	
3	1-693-702-11	TUNER (FM/AM) (TM10SE) (DZ120: AUS/DZ120K: EXCEPT RU)	
3	1-693-703-11	TUNER (FM/AM) (TM10SU) (DZ120: US, CND)	
4	A-1146-119-A	I/O SCART BOARD, COMPLETE (DZ110/DZ111)	
4	A-1176-126-A	I/O BOARD, COMPLETE (DZ120)	
4	A-1177-714-A	I/O BOARD, COMPLETE (DZ120K)	
5	3-077-331-21	+BV3 (3-CR)	
6	3-363-099-51	SCREW (CASE 3 TP2)	
7	2-653-932-01	CASE	
8	1-828-952-11	WIRE (FLAT TYPE)(9 CORE)(DZ120/DZ120K)	
8	1-828-962-11	WIRE (FLAT TYPE)(11 CORE)(DZ110/DZ111)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-871-01	SCREW +BVTT 3X6 (S)	

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

7-2. FRONT PANEL SECTION

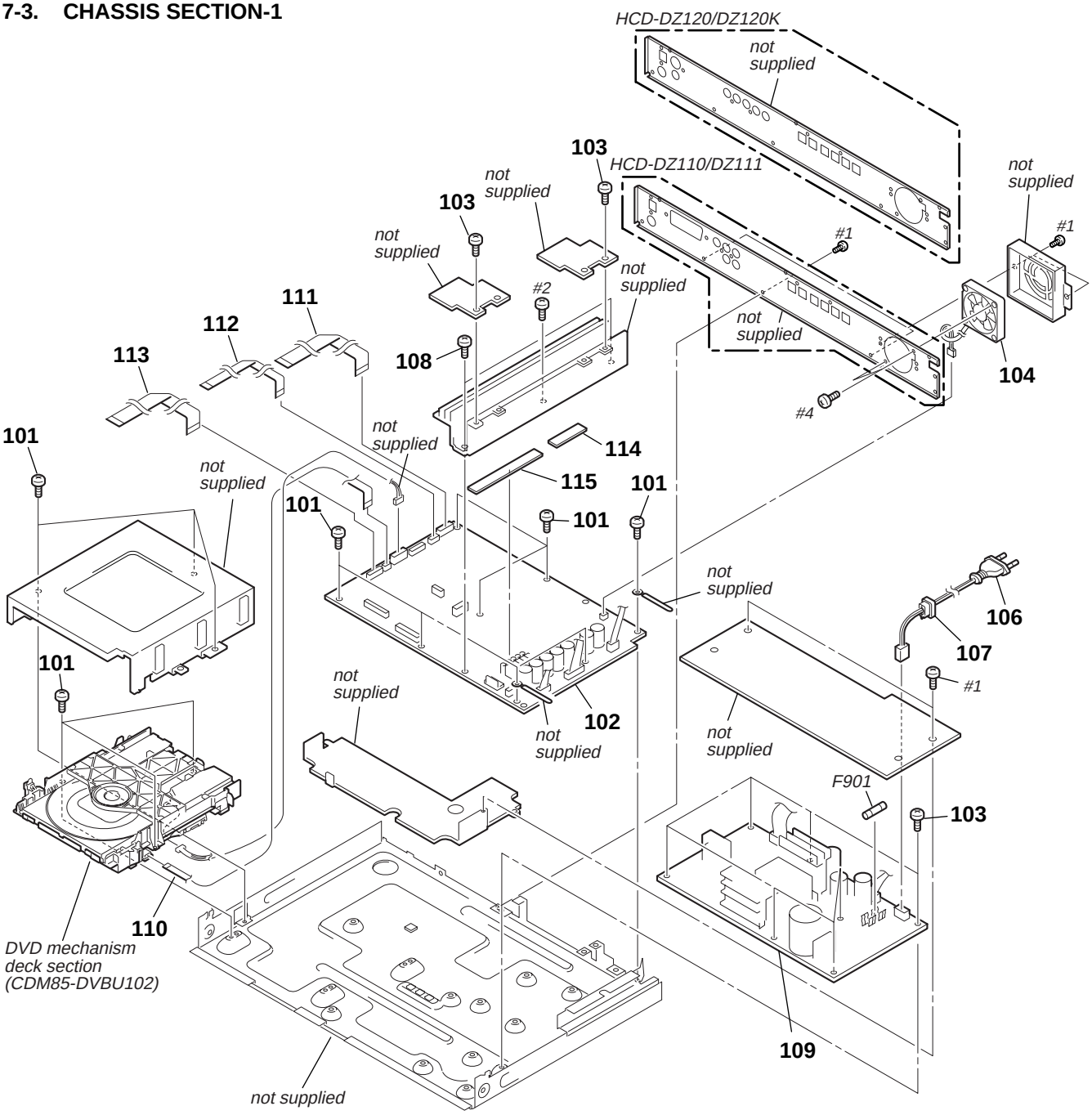


Ref. No.	Part No.	Description	Remark
51	2-652-983-01	KNOB (VOL)	
52	2-652-982-01	RING (VOL)	
53	2-652-981-01	ORNAMENT (RIGHT)	
54	2-652-980-01	ORNAMENT (PLAY)	
55	2-652-984-01	WINDOW, INDICATION	
56	2-652-979-01	ORNAMENT (POWER)	
57	2-661-952-01	SHEET (WINDOW), ADHESIVE	
58	3-943-995-31	EMBLEM (NO.5), SONY	
59	2-653-929-01	BUTTON (POWER)	
60	2-652-971-01	PANEL, FRONT (DZ111)	
60	2-652-971-11	PANEL, FRONT (DZ110)	
60	2-652-971-21	PANEL, FRONT (DZ120: US, CND)	
60	2-652-971-31	PANEL, FRONT (DZ120: KR, AUS, RU)	
60	2-652-971-41	PANEL, FRONT (DZ120K: E3, SP, AR, E12, TW)	
60	2-652-971-51	PANEL, FRONT (DZ120K: MX, E32)	

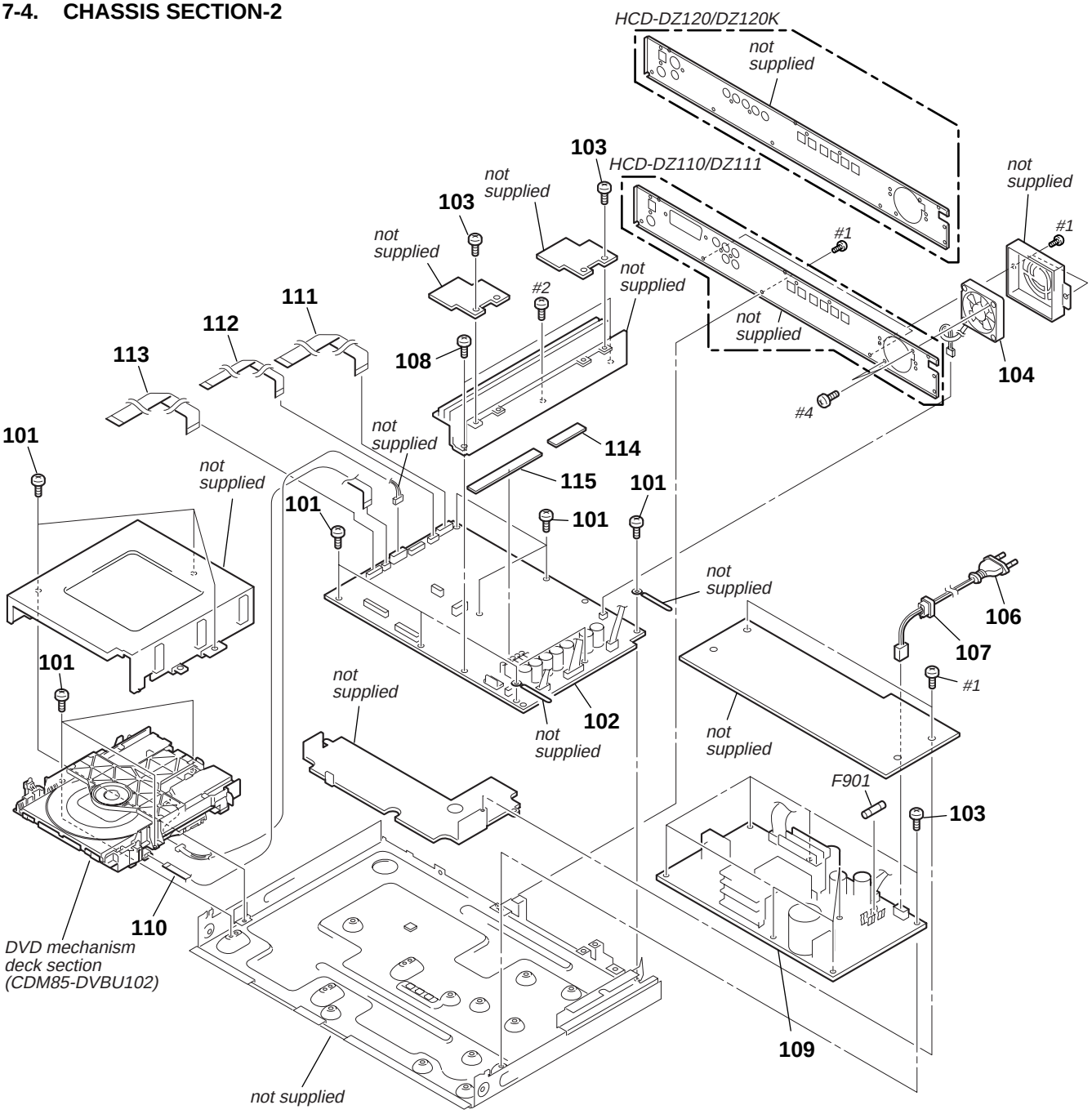
Ref. No.	Part No.	Description	Remark
60	2-654-345-21	PANEL, FRONT (DZ120K: RU, EA)	
61	3-087-053-01	+BVTP2.6 (3CR)	
62	2-653-930-01	BUTTON (PLAY)	
63	A-1144-767-A	JACK BOARD, COMPLETE (DZ110/DZ111/DZ120)	
63	A-1177-703-A	JACK BOARD, COMPLETE (DZ120K)	
64	A-1144-764-A	FL BOARD, COMPLETE (DZ110/DZ111/DZ120)	
64	A-1177-702-A	FL BOARD, COMPLETE (DZ120K)	
65	1-828-384-11	WIRE (FLAT TYPE)(23 CORE)	
66	1-828-325-11	WIRE (FLAT TYPE)(13 CORE)	

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

7-3. CHASSIS SECTION-1


HCD-DZ120/DZ120K
not supplied
HCD-DZ110/DZ111
103
not supplied
not supplied
not supplied

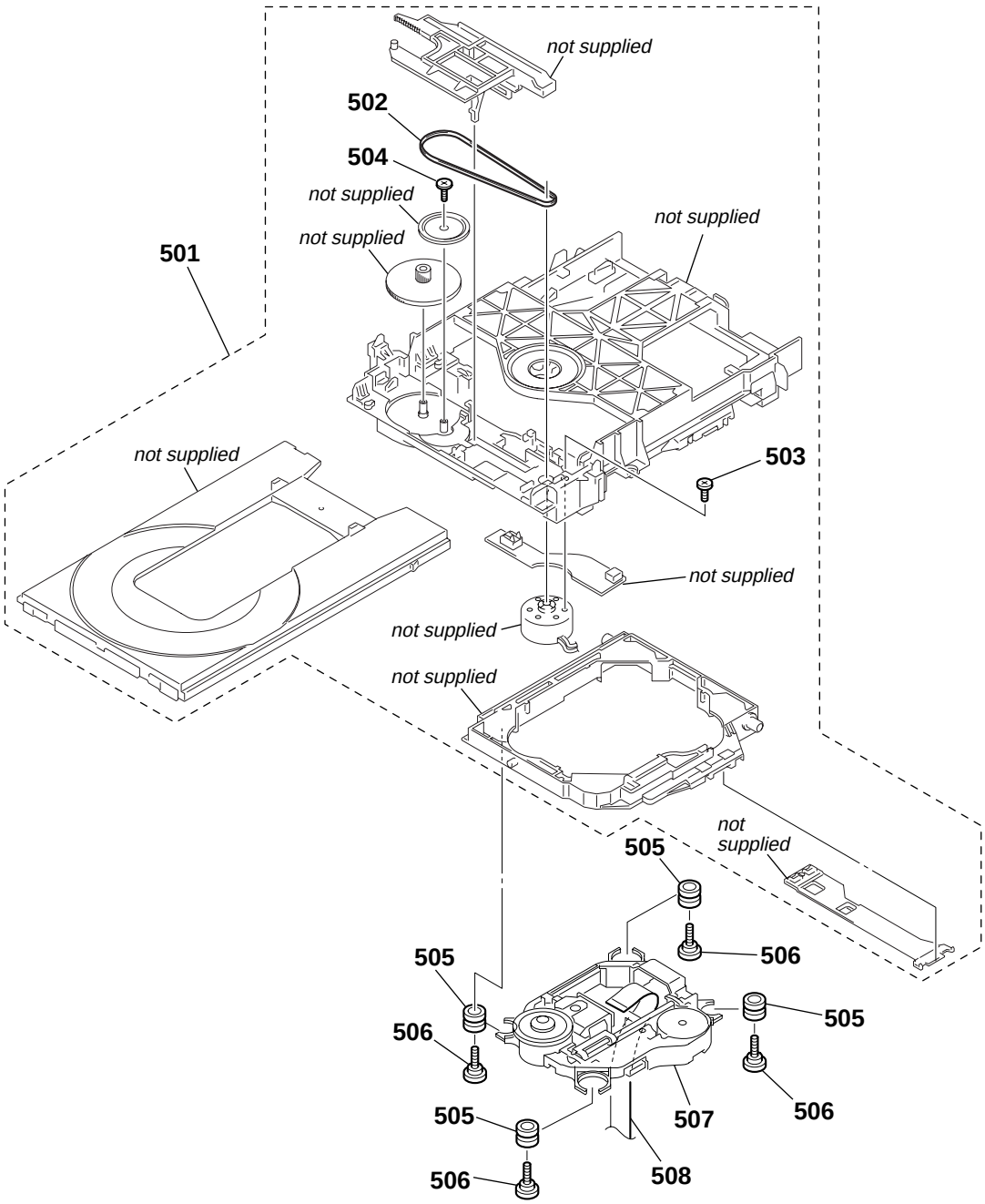
7-4. CHASSIS SECTION-2



Ref. No.	Part No.	Description	Remark
(Continued from page 66)			
107	3-703-244-00	BUSHING (2104), CORD (DZ120K: EXCEPT MX)	
* 107	3-703-571-12	BUSHING (S) (4516), CORD (DZ120K: MX)	
108	3-077-331-11	+BVTP 3X10 (3-CR)	
109	A-1144-737-A	POWER BOARD, COMPLETE (DZ110/DZ111)	
109	A-1144-950-A	POWER BOARD, COMPLETE (DZ120: KR, RU)	
109	A-1146-005-A	POWER BOARD, COMPLETE (DZ120: US, CND/DZ120K :TW)	
109	A-1146-091-A	POWER BOARD, COMPLETE (DZ120K: MX)	
109	A-1159-363-A	POWER BOARD, COMPLETE (DZ120K: E32)	
109	A-1177-691-A	POWER BOARD, COMPLETE (DZ120K: RU)	
109	A-1178-742-A	POWER BOARD, COMPLETE (DZ120: AUS/DZ120K: EA, E3, SP, AR)	
110	1-828-292-11	WIRE (FLAT TYPE)(5 CORE)	
111	1-828-332-11	WIRE (FLAT TYPE)(13 CORE)	
112	1-828-300-11	WIRE (FLAT TYPE)(7 CORE)	
113	1-828-330-11	WIRE (FLAT TYPE)(13 CORE)	
114	2-597-972-21	SHEET, RADITATION (DZ120: EXCEPT US)	
114	2-597-972-61	SHEET, RADITATION (DZ120: US)	
115	2-597-972-11	SHEET, RADITATION (DZ120: EXCEPT US)	
115	2-597-972-41	SHEET, RADITATION (DZ120: US)	
⚠F901	1-532-325-00	FUSE (T6.3AL/250V) (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, SP, AR, RU, EA, E12)	
⚠F901	1-532-749-11	FUSE, GLASS TUBE (8A/125V) (DZ120: US, CND/DZ120K: MX, TW)	
⚠F901	1-533-949-31	FUSE, CYLINDRICAL(TIME LUG) (T8AL/250V) (DZ120K: E32)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#4	7-685-881-09	SCREW +BVTT 4X8 (S)	

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

7-5. DVD MECHANISM DECK SECTION (CDM85-DVBU102)



Ref. No.	Part No.	Description	Remark
501	A-6071-669-A	LOADING ASSY (M)	
502	3-088-371-01	BELT	
503	4-974-725-11	SCREW (M1.7X2.5), P	
504	4-674-137-11	SCREW (PTP2X5)	
505	2-634-618-01	INSULATOR	
506	3-087-599-01	INSULATOR SCREW	
⚠507	8-820-290-02	DEVICE, OPTICAL KHM-310CAA/C2RP	
508	1-828-773-51	WIRE (FLAT TYPE)(24 CORE)	

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. ., uPA. . : µPA. .,
  uPB. . : µPB. ., uPC. . : µPC. .,
  uPD. . : µPD. .
- Abbreviation
  AUS : Australian Model
  AR : Argentina model
  CND : Canadian Model
  E3 : 240V AC area in E model
  E12 : 220-240V AC area in E model
  E32 : 110-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		DDCON BOARD			
		**********			
		< CAPACITOR >			
C800	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C801	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V
C802	1-119-772-91	ELECT	47uF	20%	35V
C803	1-124-584-00	ELECT	100uF	20%	10V
C804	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C805	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< DIODE >			
D801	8-719-988-61	DIODE 1SS355TE-17			
D802	8-719-988-61	DIODE 1SS355TE-17			
D803	8-719-069-56	DIODE UDZSTE-176.2B			
D804	8-719-988-61	DIODE 1SS355TE-17			
D805	8-719-988-61	DIODE 1SS355TE-17			
		< COIL >			
L801	1-410-671-31	INDUCTOR	47uH		
L802	1-410-671-31	INDUCTOR	47uH		
		< TRANSISTOR >			
Q801	6-550-065-01	TRANSISTOR	CPH5504-TL-E		
		< RESISTOR >			
R801	1-216-839-11	METAL CHIP	33K	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R805	1-216-295-91	SHORT CHIP	0		
		< TRANSFORMER >			
T801	1-443-645-11	TRANSFORMER, DC CONVERTER			
**********					
	A-1144-764-A	FL BOARD, COMPLETE (DZ110/DZ111/DZ120)			
	A-1177-702-A	FL BOARD, COMPLETE (DZ120K)			
		**********			
		< CAPACITOR >			
C435	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C436	1-115-156-11	CERAMIC CHIP	1uF		10V
C806	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-126-157-11	ELECT	10uF	20%	16V
C810	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C811	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C812	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C813	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C814	1-126-157-11	ELECT	10uF	20%	16V
C815	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C816	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C817	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C818	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C821	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C822	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C823	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C824	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C825	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C826	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C829	1-124-259-11	ELECT	4.7uF	20%	50V
C832	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CN801	1-779-560-21	CONNECTOR, FFC (LIF (NON-ZIF)) 23P			
CN803	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			(DZ110/DZ111/DZ120)
CN805	1-794-506-51	CONNECTOR, FFC/FPC 13P			
CN811	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE) 5P			
		< DIODE >			
D431	8-719-988-61	DIODE 1SS355TE-17			
D432	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB451	1-469-144-21	FERRITE, EMI (SMD) (2012)			(DZ110/DZ111/DZ120)
FB461	1-469-144-21	FERRITE, EMI (SMD) (2012)			(DZ110/DZ111/DZ120)
FB478	1-469-144-21	FERRITE, EMI (SMD) (2012)			(DZ110/DZ111/DZ120)
FB806	1-414-813-11	FERRITE, EMI (SMD) (2012)			
		< FLUORESCENT INDICATOR >			
FL801	1-519-852-11	FLUORESCENT INDICATOR			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC801	6-600-349-21	IC NJL23H400A			
IC802	8-759-643-83	IC uPD16315GB-3BS			
		< TRANSISTOR >			
Q450	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		(DZ110/DZ111/DZ120)
Q451	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		(DZ110/DZ111/DZ120)
Q460	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		(DZ110/DZ111/DZ120)
Q461	6-550-889-01	TRANSISTOR	2SC5938-T112-1B		(DZ110/DZ111/DZ120)
Q802	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R436	1-216-834-11	METAL CHIP	12K	5% 1/10W	
R437	1-216-835-11	METAL CHIP	15K	5% 1/10W	
R450	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(DZ110/DZ111/DZ120)
R451	1-216-801-11	METAL CHIP	22	5% 1/10W	(DZ110/DZ111/DZ120)
R452	1-216-805-11	METAL CHIP	47	5% 1/10W	(DZ110/DZ111/DZ120)
R453	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(DZ110/DZ111/DZ120)
R454	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(DZ110/DZ111/DZ120)
R460	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(DZ110/DZ111/DZ120)
R461	1-216-801-11	METAL CHIP	22	5% 1/10W	(DZ110/DZ111/DZ120)
R462	1-216-805-11	METAL CHIP	47	5% 1/10W	(DZ110/DZ111/DZ120)
R463	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(DZ110/DZ111/DZ120)
R464	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	(DZ110/DZ111/DZ120)
R800	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R811	1-216-844-11	METAL CHIP	82K	5% 1/10W	
R812	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R813	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R814	1-216-809-11	METAL CHIP	100	5% 1/10W	
R815	1-216-809-11	METAL CHIP	100	5% 1/10W	
R816	1-216-809-11	METAL CHIP	100	5% 1/10W	
R817	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R819	1-216-805-11	METAL CHIP	47	5% 1/10W	
R820	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R823	1-216-864-11	SHORT CHIP	0		
**********					
	A-1176-126-A	I/O BOARD, COMPLETE (DZ120)			
	A-1177-714-A	I/O BOARD, COMPLETE (DZ120K)			
		**********			
		< CAPACITOR >			
C201	1-126-964-11	ELECT	10uF	20% 50V	
C202	1-115-156-11	CERAMIC CHIP	1uF	10V	
C203	1-115-156-11	CERAMIC CHIP	1uF	10V	
C204	1-115-156-11	CERAMIC CHIP	1uF	10V	
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C207	1-126-964-11	ELECT	10uF	20% 50V	
C208	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C209	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C210	1-126-925-91	ELECT	470uF	20% 10V	
C212	1-162-921-11	CERAMIC CHIP	33PF	5% 50V	
C213	1-126-933-11	ELECT	100uF	20% 16V	
C214	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C223	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C224	1-126-916-11	ELECT	1000uF	20% 6.3V	
C225	1-126-916-11	ELECT	1000uF	20% 6.3V	
C226	1-126-916-11	ELECT	1000uF	20% 6.3V	
C227	1-126-933-11	ELECT	100uF	20% 16V	
C228	1-126-933-11	ELECT	100uF	20% 16V	
C234	1-126-933-11	ELECT	100uF	20% 16V	
C235	1-104-662-91	ELECT	22uF	20% 25V	
C236	1-104-662-91	ELECT	22uF	20% 25V	
C239	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C242	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C333	1-126-933-11	ELECT	100uF	20% 16V	
C334	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C336	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C337	1-104-662-91	ELECT	22uF	20% 25V	
C338	1-126-933-11	ELECT	100uF	20% 16V	
C339	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C340	1-104-662-91	ELECT	22uF	20% 25V	
C341	1-104-662-91	ELECT	22uF	20% 25V	
C342	1-104-662-91	ELECT	22uF	20% 25V	
C345	1-126-796-11	ELECT	22uF	20% 50V	
C346	1-126-796-11	ELECT	22uF	20% 50V	
C348	1-127-573-11	CERAMIC CHIP	1uF	10% 16V	
C349	1-126-796-11	ELECT	22uF	20% 50V	
C350	1-104-662-91	ELECT	22uF	20% 25V	
C351	1-126-947-11	ELECT	47uF	20% 35V	
C352	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	
C354	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C355	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	
C356	1-162-960-11	CERAMIC CHIP	220PF	10% 50V	
C357	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	(DZ120K)
C358	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	(DZ120K)
C359	1-126-960-11	ELECT	1uF	20% 50V	
C360	1-126-960-11	ELECT	1uF	20% 50V	
C362	1-104-662-91	ELECT	22uF	20% 25V	
C363	1-104-662-91	ELECT	22uF	20% 25V	(DZ120K)
C374	1-126-960-11	ELECT	1uF	20% 50V	(DZ120K)
C375	1-126-960-11	ELECT	1uF	20% 50V	(DZ120K)
C376	1-126-933-91	ELECT	100uF	20% 16V	(DZ120K)
C377	1-164-156-11	CERAMIC CHIP	0.1uF	25V	(DZ120K)
C378	1-126-957-91	ELECT	0.22uF	20% 50V	(DZ120K)
C379	1-126-933-91	ELECT	100uF	20% 16V	(DZ120K)

Ref. No.	Part No.	Description			Remark
C380	1-164-156-11	CERAMIC CHIP	0.1uF		25V (DZ120K)
C381	1-126-957-91	ELECT	0.22uF	20%	50V (DZ120K)
C382	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (DZ120K)
C383	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (DZ120K)
C397	1-164-156-11	CERAMIC CHIP	0.1uF		25V (DZ120K)
C399	1-126-933-91	ELECT	100uF	20%	16V (DZ120K)
		< CONNECTOR >			
CN201	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
CN202	1-779-544-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
CN203	1-568-828-11	CONNECTOR, FFC 9P			
CN311	1-794-506-51	CONNECTOR, FFC/FPC 13P			
CN312	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE) 5P (DZ120)			
CN312	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE) 6P (DZ120K)			
		< DIODE >			
D211	8-719-988-61	DIODE 1SS355TE-17 (DZ120K)			
D212	8-719-988-61	DIODE 1SS355TE-17 (DZ120K)			
D221	8-719-988-61	DIODE 1SS355TE-17 (DZ120K)			
D222	8-719-988-61	DIODE 1SS355TE-17 (DZ120K)			
D310	8-719-069-54	DIODE UDZSTE-175.1B (DZ120K)			
D352	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC201	6-705-602-01	IC MM1623BFBE			
IC352	8-759-385-76	IC MC14052 BDR2			
IC353	8-759-100-96	IC uPC4558G2			
IC356	8-759-100-96	IC uPC4558G2 (DZ120K)			
IC357	6-706-078-01	IC M62429FP-TP (DZ120K)			
IC360	6-703-550-01	IC TA7809LS			
		< JACK >			
J200	1-764-593-21	JACK 2P (TV/VCR)			
J201	1-780-211-11	TERMINAL BOARD (S TERMINAL+1P) (S VIDEO)(VIDEO)(MONITOR OUT)			
J202	1-817-449-11	JACK, PIN 3P (Y,PB/CB,PR/CR) (COMPONENT VIDEO OUT)			
		< SHORT >			
JR361	1-216-864-11	SHORT CHIP	0 (DZ120K)		
		< COIL >			
L201	1-469-525-91	INDUCTOR	10uH		
L202	1-469-525-91	INDUCTOR	10uH		
L352	1-469-525-91	INDUCTOR	10uH		
L353	1-469-525-91	INDUCTOR	10uH		
		< TRANSISTOR >			
Q351	8-729-901-00	TRANSISTOR	DTC124EK (DZ120K)		
Q353	8-729-901-00	TRANSISTOR	DTC124EK		
Q354	8-729-901-00	TRANSISTOR	DTC124EK		
Q355	8-729-901-00	TRANSISTOR	DTC124EK (DZ120K)		

Ref. No.	Part No.	Description			Remark
Q360	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q361	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q362	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R207	1-216-864-11	SHORT CHIP	0		
R209	1-216-864-11	SHORT CHIP	0		
R228	1-216-833-11	METAL CHIP	10K	5%	1/10W
R229	1-218-285-11	METAL CHIP	75	5%	1/10W
R230	1-218-285-11	METAL CHIP	75	5%	1/10W
R231	1-218-285-11	METAL CHIP	75	5%	1/10W
R232	1-218-285-11	METAL CHIP	75	5%	1/10W
R233	1-218-285-11	METAL CHIP	75	5%	1/10W
R234	1-216-809-11	METAL CHIP	100	5%	1/10W
R235	1-216-809-11	METAL CHIP	100	5%	1/10W
R241	1-218-285-11	METAL CHIP	75	5%	1/10W
R253	1-216-845-11	METAL CHIP	100K	5%	1/10W
R254	1-216-845-11	METAL CHIP	100K	5%	1/10W
R255	1-216-845-11	METAL CHIP	100K	5%	1/10W
R256	1-216-845-11	METAL CHIP	100K	5%	1/10W
R263	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R272	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R273	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R274	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R275	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R276	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R293	1-216-864-11	SHORT CHIP	0 (DZ120)		
R294	1-216-864-11	SHORT CHIP	0 (DZ120K)		
R330	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R331	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R334	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R335	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (DZ120K)
R337	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ120K)
R340	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ120K)
R343	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R344	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R345	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (DZ120K)
R346	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (DZ120K)
R349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R350	1-216-833-11	METAL CHIP	10K	5%	1/10W
R356	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R357	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R358	1-216-841-11	METAL CHIP	47K	5%	1/10W
R359	1-216-817-11	METAL CHIP	470	5%	1/10W
R360	1-216-817-11	METAL CHIP	470	5%	1/10W
R363	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R364	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R365	1-216-841-11	METAL CHIP	47K	5%	1/10W
R366	1-216-841-11	METAL CHIP	47K	5%	1/10W
R367	1-216-821-11	METAL CHIP	1K	5%	1/10W
R368	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R369	1-216-821-11	METAL CHIP	1K	5%	1/10W
R370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R371	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W
R375	1-216-821-11	METAL CHIP	1K	5%	1/10W
R376	1-216-864-11	SHORT CHIP	0		
R377	1-216-841-11	METAL CHIP	47K	5%	1/10W
R378	1-216-841-11	METAL CHIP	47K	5%	1/10W
R380	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W
R382	1-216-841-11	METAL CHIP	47K	5%	1/10W
R384	1-216-841-11	METAL CHIP	47K	5%	1/10W
R385	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R386	1-216-841-11	METAL CHIP	47K	5%	1/10W
R387	1-216-832-11	METAL CHIP	8.2K	5%	1/10W (DZ120K)
R388	1-215-865-11	METAL OXIDE	220	5%	1W (DZ120K)
R391	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R393	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R395	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ120K)
R396	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ120K)
R399	1-216-849-11	METAL CHIP	220K	5%	1/10W (DZ120K)

****

A-1146-119-A I/O SCART BOARD, COMPLETE (DZ110/DZ111)
****

< CAPACITOR >

C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-126-925-91	ELECT	470uF	20%	10V
C203	1-126-933-11	ELECT	100uF	20%	16V
C204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C206	1-126-964-11	ELECT	10uF	20%	50V
C208	1-115-156-11	CERAMIC CHIP	1uF		10V
C209	1-115-156-11	CERAMIC CHIP	1uF		10V
C210	1-115-156-11	CERAMIC CHIP	1uF		10V
C214	1-126-916-11	ELECT	1000uF	20%	6.3V
C215	1-126-933-11	ELECT	100uF	20%	16V
C216	1-126-933-11	ELECT	100uF	20%	16V
C225	1-126-916-11	ELECT	1000uF	20%	6.3V
C231	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C232	1-126-933-11	ELECT	100uF	20%	16V
C233	1-126-933-11	ELECT	100uF	20%	16V
C234	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C238	1-115-156-11	CERAMIC CHIP	1uF		10V
C239	1-115-156-11	CERAMIC CHIP	1uF		10V
C240	1-115-156-11	CERAMIC CHIP	1uF		10V
C244	1-126-916-11	ELECT	1000uF	20%	6.3V
C245	1-126-916-11	ELECT	1000uF	20%	6.3V
C246	1-126-916-11	ELECT	1000uF	20%	6.3V
C271	1-126-933-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C295	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C296	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C303	1-126-947-11	ELECT	47uF	20%	35V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-126-933-11	ELECT	100uF	20%	16V
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-104-662-91	ELECT	22uF	20%	25V
C311	1-104-662-91	ELECT	22uF	20%	25V
C320	1-104-662-91	ELECT	22uF	20%	25V
C321	1-104-662-91	ELECT	22uF	20%	25V
C331	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C332	1-104-662-91	ELECT	22uF	20%	25V
C333	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C334	1-104-662-91	ELECT	22uF	20%	25V
C341	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C342	1-104-662-91	ELECT	22uF	20%	25V
C343	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C344	1-104-662-91	ELECT	22uF	20%	25V
C351	1-104-662-91	ELECT	22uF	20%	25V
C352	1-104-662-91	ELECT	22uF	20%	25V
C354	1-126-960-11	ELECT	1uF	20%	50V
C355	1-126-933-11	ELECT	100uF	20%	16V
C356	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C358	1-126-933-11	ELECT	100uF	20%	16V
C359	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C361	1-104-662-91	ELECT	22uF	20%	25V
C362	1-104-662-91	ELECT	22uF	20%	25V
C364	1-126-960-11	ELECT	1uF	20%	50V
C365	1-104-662-91	ELECT	22uF	20%	25V
C366	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C389	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C390	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

< CONNECTOR >

CN201	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P
CN301	1-794-194-51	CONNECTOR, FFC/FPC 13P
CN302	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE) 5P
CN303	1-816-955-11	CONNECTOR, FFC/FPC 11P
CN304	1-779-544-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P

< DIODE >

D271	8-719-988-61	DIODE 1SS355TE-17
D272	8-719-988-61	DIODE 1SS355TE-17
D300	8-719-058-24	DIODE RB501V-40TE-17

< IC >

IC201	6-707-489-01	IC BH7868FS-E2
IC230	6-707-489-01	IC BH7868FS-E2
IC300	6-703-550-01	IC TA7809LS
IC350	8-759-385-76	IC MC14052 BDR2
IC360	8-759-100-96	IC uPC4558G2

< JACK >

J203	1-819-925-11	JACK, PIN 5P (COMPONENNT VIDEO OUT) (AUDIO IN)(LINE)
J230	1-815-911-11	CONNECTOR, SQUARE TYPE 21P (EURO AV ⇨ OUT PUT (TO TV))

Ref. No.	Part No.	Description			Remark
		< COIL >			
L201	1-469-525-91	INDUCTOR	10uH		
L231	1-469-525-91	INDUCTOR	10uH		
L300	1-469-525-91	INDUCTOR	10uH		
L350	1-469-525-91	INDUCTOR	10uH		
		< TRANSISTOR >			
Q271	1-801-806-11	TRANSISTOR	DTC144EKA		
Q272	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q273	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q274	1-801-806-11	TRANSISTOR	DTC144EKA		
Q275	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q276	1-801-806-11	TRANSISTOR	DTC144EKA		
Q277	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q279	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
Q300	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q310	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q320	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q395	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
Q396	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
		< RESISTOR >			
R209	1-216-864-11	SHORT CHIP	0		
R214	1-218-285-11	METAL CHIP	75	5%	1/10W
R215	1-218-285-11	METAL CHIP	75	5%	1/10W
R216	1-218-285-11	METAL CHIP	75	5%	1/10W
R225	1-218-285-11	METAL CHIP	75	5%	1/10W
R227	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R228	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R229	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R230	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R231	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R232	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R244	1-218-285-11	METAL CHIP	75	5%	1/10W
R245	1-218-285-11	METAL CHIP	75	5%	1/10W
R246	1-218-285-11	METAL CHIP	75	5%	1/10W
R247	1-216-864-11	SHORT CHIP	0		
R248	1-216-864-11	SHORT CHIP	0		
R249	1-216-864-11	SHORT CHIP	0		
R250	1-216-864-11	SHORT CHIP	0		
R251	1-216-864-11	SHORT CHIP	0		
R271	1-216-821-11	METAL CHIP	1K	5%	1/10W
R272	1-216-841-11	METAL CHIP	47K	5%	1/10W
R273	1-216-849-11	METAL CHIP	220K	5%	1/10W
R274	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R275	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R276	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R277	1-216-821-11	METAL CHIP	1K	5%	1/10W
R278	1-216-837-11	METAL CHIP	22K	5%	1/10W
R279	1-216-815-11	METAL CHIP	330	5%	1/10W
R280	1-216-815-11	METAL CHIP	330	5%	1/10W
R281	1-216-815-11	METAL CHIP	330	5%	1/10W
R282	1-216-815-11	METAL CHIP	330	5%	1/10W
R284	1-216-833-11	METAL CHIP	10K	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W
R286	1-216-821-11	METAL CHIP	1K	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W
R310	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R311	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-841-11	METAL CHIP	47K	5%	1/10W
R314	1-216-841-11	METAL CHIP	47K	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R320	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R321	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-841-11	METAL CHIP	47K	5%	1/10W
R324	1-216-841-11	METAL CHIP	47K	5%	1/10W
R326	1-216-833-11	METAL CHIP	10K	5%	1/10W
R331	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R335	1-216-841-11	METAL CHIP	47K	5%	1/10W
R336	1-216-841-11	METAL CHIP	47K	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R339	1-216-841-11	METAL CHIP	47K	5%	1/10W
R340	1-216-841-11	METAL CHIP	47K	5%	1/10W
R341	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R345	1-216-841-11	METAL CHIP	47K	5%	1/10W
R346	1-216-841-11	METAL CHIP	47K	5%	1/10W
R348	1-216-833-11	METAL CHIP	10K	5%	1/10W
R349	1-216-841-11	METAL CHIP	47K	5%	1/10W
R350	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-845-11	METAL CHIP	100K	5%	1/10W
R352	1-216-845-11	METAL CHIP	100K	5%	1/10W
R353	1-216-841-11	METAL CHIP	47K	5%	1/10W
R355	1-216-817-11	METAL CHIP	470	5%	1/10W
R356	1-216-833-11	METAL CHIP	10K	5%	1/10W
R357	1-216-821-11	METAL CHIP	1K	5%	1/10W
R358	1-216-833-11	METAL CHIP	10K	5%	1/10W
R359	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R360	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R361	1-216-845-11	METAL CHIP	100K	5%	1/10W
R362	1-216-845-11	METAL CHIP	100K	5%	1/10W
R363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R365	1-216-817-11	METAL CHIP	470	5%	1/10W
R366	1-216-864-11	SHORT CHIP	0		
R367	1-216-864-11	SHORT CHIP	0		
R399	1-216-821-11	METAL CHIP	1K	5%	1/10W
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	A-1144-767-A	JACK BOARD, COMPLETE			(DZ110/DZ111/DZ120)
	A-1177-703-A	JACK BOARD, COMPLETE (DZ120K)			
		**********			
		< CAPACITOR >			
C401	1-124-589-11	ELECT	47uF	20%	16V
C403	1-124-584-00	ELECT	100uF	20%	10V
C404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C406	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V (DZ120K)
C410	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C411	1-126-157-11	ELECT	10uF	20%	16V

JACK

Ref. No.	Part No.	Description			Remark
C412	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C413	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-126-157-11	ELECT	10uF	20%	16V
C422	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C423	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C431	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C432	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C433	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C434	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C440	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (DZ120K)
C441	1-126-157-11	ELECT	10uF	20%	16V (DZ120K)
C442	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (DZ120K)
C443	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (DZ120K)
C444	1-126-157-11	ELECT	10uF	20%	16V (DZ120K)
C450	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (DZ110/DZ111/DZ120)
C460	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (DZ110/DZ111/DZ120)
C471	1-124-222-91	ELECT	22uF	20%	6.3V
C473	1-162-995-11	CERAMIC CHIP	0.022uF		50V (DZ120K)
C490	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C493	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C819	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CNP802	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
		< DIODE >			
D433	8-719-988-61	DIODE 1SS355TE-17			
D470	8-719-988-61	DIODE 1SS355TE-17			
D490	6-501-193-01	DIODE 1SS355WTE-17 (DZ110/DZ111/DZ120)			
D491	6-501-193-01	DIODE 1SS355WTE-17 (DZ110/DZ111/DZ120)			
D496	6-501-193-01	DIODE 1SS355WTE-17			
D497	6-501-193-01	DIODE 1SS355WTE-17			
		< FERRITE BEAD >			
FB410	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB420	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB450	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
FB460	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
FB470	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB471	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB472	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB474	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB475	1-469-144-21	FERRITE, EMI (SMD) (2012)			
FB476	1-469-144-21	FERRITE, EMI (SMD) (2012) (DZ120K)			
FB479	1-500-284-21	INDUCTOR, FERRITE BEAD (DZ110/DZ111/DZ120)			
		< IC >			
IC401	8-759-100-96	IC uPC4558G2			
IC402	8-759-100-96	IC uPC4558G2			
		< JACK >			
J401	1-819-878-11	JACK (AUDIO IN)			
J402	1-819-878-11	JACK (PHONES)			
		< SHORT >			
JR811	1-216-864-11	SHORT CHIP	0		
JR813	1-216-864-11	SHORT CHIP	0		
JR814	1-216-864-11	SHORT CHIP	0		
JR815	1-216-864-11	SHORT CHIP	0		
JR816	1-216-864-11	SHORT CHIP	0		
JR817	1-216-864-11	SHORT CHIP	0		
JR901	1-216-864-11	SHORT CHIP	0		
JR902	1-216-864-11	SHORT CHIP	0		
JR903	1-216-864-11	SHORT CHIP	0		
JR904	1-216-864-11	SHORT CHIP	0		
JR905	1-216-864-11	SHORT CHIP	0		
JR907	1-216-864-11	SHORT CHIP	0		
JR908	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q470	1-801-806-11	TRANSISTOR	DTC144EKA		
Q471	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q472	8-729-048-50	TRANSISTOR	2SK3018-T106		
Q473	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q474	8-729-027-24	TRANSISTOR	DTA114TKA-T146		
Q475	1-801-806-11	TRANSISTOR	DTC144EKA		
Q476	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
Q477	8-729-027-23	TRANSISTOR	DTA114EKA-T146 (DZ120K)		
Q478	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (DZ120K)		
		< RESISTOR >			
R401	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R402	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R404	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (DZ120K)
R405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (DZ120K)
R410	1-216-845-11	METAL CHIP	100K	5%	1/10W
R411	1-216-817-11	METAL CHIP	470	5%	1/10W
R412	1-216-837-11	METAL CHIP	22K	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-835-11	METAL CHIP	15K	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-801-11	METAL CHIP	22	5%	1/10W
R420	1-216-845-11	METAL CHIP	100K	5%	1/10W
R421	1-216-817-11	METAL CHIP	470	5%	1/10W
R422	1-216-837-11	METAL CHIP	22K	5%	1/10W
R423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R424	1-216-821-11	METAL CHIP	1K	5%	1/10W
R431	1-216-864-11	SHORT CHIP	0		
R432	1-216-837-11	METAL CHIP	22K	5%	1/10W
R433	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R434	1-216-864-11	SHORT CHIP	0		
R435	1-216-857-11	METAL CHIP	1M	5%	1/10W

Ref. No.	Part No.	Description			Remark
R440	1-216-845-11	METAL CHIP	100K	5%	1/10W (DZ120K)
R441	1-216-817-11	METAL CHIP	470	5%	1/10W (DZ120K)
R442	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ120K)
R443	1-216-821-11	METAL CHIP	1K	5%	1/10W (DZ120K)
R444	1-216-835-11	METAL CHIP	15K	5%	1/10W (DZ120K)
R444	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
R445	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
R446	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ120K)
R470	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R471	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R472	1-216-819-11	METAL CHIP	680	5%	1/10W
R477	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R478	1-216-813-11	METAL CHIP	220	5%	1/10W
R479	1-216-864-11	SHORT CHIP	0		
R480	1-216-804-11	METAL CHIP	39	5%	1/10W
R481	1-216-845-11	METAL CHIP	100K	5%	1/10W
R482	1-216-833-11	METAL CHIP	10K	5%	1/10W
R487	1-216-864-11	SHORT CHIP	0		
R488	1-216-845-11	METAL CHIP	100K	5%	1/10W
R490	1-216-864-11	SHORT CHIP	0		
R492	1-216-864-11	SHORT CHIP	0		
R494	1-216-864-11	SHORT CHIP	0 (DZ120K)		
R495	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
R496	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R821	1-216-864-11	SHORT CHIP	0		
R822	1-216-864-11	SHORT CHIP	0		
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R852	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R853	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R856	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R857	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S800	1-418-725-51	ENCODER, ROTARY (12 TYPE) (VOLUME,– ↶ +)			
S802	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S803	1-762-875-21	SWITCH, KEYBOARD (I◀◀)			
S804	1-762-875-21	SWITCH, KEYBOARD (▮▮)			
S805	1-762-875-21	SWITCH, KEYBOARD (■)			
S806	1-762-875-21	SWITCH, KEYBOARD (▶▶I)			
S807	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S808	1-762-875-21	SWITCH, KEYBOARD (▷)			
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☆	A-1144-739-A	MAIN BOARD, COMPLETE (DZ110)			
☆	A-1159-290-A	MAIN BOARD, COMPLETE (DZ111)			
☆	A-1159-302-A	MAIN BOARD, COMPLETE (DZ120: US, CND)			
☆	A-1159-317-A	MAIN BOARD, COMPLETE (DZ120: AUS)			
☆	A-1159-326-A	MAIN BOARD, COMPLETE (DZ120K: KR)			
☆	A-1159-334-A	MAIN BOARD, COMPLETE (DZ120K: E3)			
☆	A-1159-365-A	MAIN BOARD, COMPLETE (DZ120K: MX, E32)			

Ref. No.	Part No.	Description			Remark
☆	A-1176-990-A	MAIN BOARD, COMPLETE (DZ120: RU)			
☆	A-1177-693-A	MAIN BOARD, COMPLETE (DZ120K: RU)			
☆	A-1177-742-A	MAIN BOARD, COMPLETE (DZ120K: EA)			
☆	A-1177-764-A	MAIN BOARD, COMPLETE (DZ120K: SP, TW)			
☆	A-1185-905-A	MAIN BOARD, COMPLETE (DZ120K: E12)			
☆	A-1185-912-A	MAIN BOARD, COMPLETE (DZ120K: AR)			
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		< CAPACITOR >			
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-126-947-11	ELECT	47uF	20%	35V
C505	1-126-947-11	ELECT	47uF	20%	35V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C509	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C511	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C517	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C570	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C571	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C572	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C580	1-104-656-11	ELECT	2200uF	20%	6.3V
C582	1-104-658-91	ELECT	100uF	20%	10V
C583	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C587	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C589	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C598	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C601	1-126-947-11	ELECT	47uF	20%	35V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C603	1-104-658-91	ELECT	100uF	20%	10V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C716	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C762	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C798	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C799	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C855	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C856	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C875	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1102	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1105	1-126-947-11	ELECT	47uF	20%	35V
C1106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1112	1-126-947-11	ELECT	47uF	20%	35V
C1113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1117	1-126-795-11	ELECT	10uF	20%	50V
C1118	1-126-795-11	ELECT	10uF	20%	50V
C1119	1-126-795-11	ELECT	10uF	20%	50V
C1120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

☆ New part of EEP ROM (IC1103) on the MAIN board cannot be used. Therefore, if the mounted MAIN board (A-1144-739-A, etc.) is replaced, exchange new EEP ROM (IC1103) with that used before the replacement.

Ref. No.	Part No.	Description			Remark
C1121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C1132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1150	1-126-795-11	ELECT	10uF	20%	50V
C1151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C1152	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1153	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C1154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1177	1-126-947-11	ELECT	47uF	20%	35V
C1178	1-126-786-11	ELECT	47uF	20%	16V
C1179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1182	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1186	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1187	1-126-786-11	ELECT	47uF	20%	16V
C1188	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C1190	1-126-947-11	ELECT	47uF	20%	35V
C1191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C1192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1193	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1195	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1217	1-126-947-11	ELECT	47uF	20%	35V
C1218	1-126-964-11	ELECT	10uF	20%	50V
C1219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1220	1-126-964-11	ELECT	10uF	20%	50V
C1221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1223	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1225	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1226	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1228	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C2200	1-126-795-11	ELECT	10uF	20%	50V
C2201	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2202	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2205	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2206	1-216-864-11	SHORT CHIP	0		
C2207	1-126-786-11	ELECT	47uF	20%	16V
C2208	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2209	1-126-795-11	ELECT	10uF	20%	50V
C2210	1-126-795-11	ELECT	10uF	20%	50V
C2211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2212	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2213	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3000	1-125-972-91	ELECT	100uF	20%	16V
C3001	1-126-947-11	ELECT	47uF	20%	35V
C3002	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3011	1-126-947-11	ELECT	47uF	20%	35V
C3012	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3013	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3014	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3015	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3017	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3018	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3020	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3021	1-126-947-11	ELECT	47uF	20%	35V
C3022	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3023	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3024	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3025	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C3026	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3029	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3031	1-126-947-11	ELECT	47uF	20%	35V
C3032	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3033	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3034	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3035	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3036	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3037	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3038	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3039	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3040	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3051	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3052	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3053	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3054	1-126-933-11	ELECT	100uF	20%	16V
C3055	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3056	1-126-923-91	ELECT	220uF	20%	10V
C3057	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3058	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C3059	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3060	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C3067	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3068	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3069	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3070	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3071	1-164-156-11	CERAMIC CHIP	0.1uF		25V
				(EXCEPT DZ120K)	
C3072	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3073	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3075	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C3081	1-126-925-91	ELECT	470uF	20%	10V
				(DZ110/DZ111/DZ120)	
C3082	1-126-925-91	ELECT	470uF	20%	10V
				(DZ110/DZ111/DZ120)	
C3083	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3084	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3085	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3086	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3087	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3088	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3089	1-164-156-11	CERAMIC CHIP	0.1uF		25V
				(DZ110/DZ111/DZ120)	
C3090	1-104-658-91	ELECT	100uF	20%	10V
				(DZ110/DZ111/DZ120)	
C3091	1-126-934-11	ELECT	220uF	20%	16V
C3092	1-164-156-11	CERAMIC CHIP	0.1uF		25V
				(DZ110/DZ111/DZ120)	
C3094	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
				(DZ110/DZ111/DZ120)	
C3095	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
				(DZ110/DZ111/DZ120)	
C3100	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3103	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3105	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3106	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3107	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3108	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3109	1-112-246-11	ELECT	100uF	20%	35V
C3112	1-112-246-11	ELECT	100uF	20%	35V
C3113	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3114	1-136-177-00	FILM	1uF	5%	50V
C3115	1-136-177-00	FILM	1uF	5%	50V
C3116	1-112-831-11	ELECT	2200uF	20%	35V
				(DZ120/DZ120K)	
C3116	1-126-953-11	ELECT	2200uF	20%	35V
				(DZ110/DZ111)	
C3117	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3118	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3119	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3120	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3121	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
					(DZ120K)
C3121	1-164-505-11	CERAMIC CHIP	2.2uF		16V
				(EXCEPT DZ120K)	
C3122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3150	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3153	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3154	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3155	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3156	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3157	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3158	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3159	1-112-246-11	ELECT	100uF	20%	35V
C3162	1-112-246-11	ELECT	100uF	20%	35V
C3163	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3164	1-136-177-00	FILM	1uF	5%	50V
C3165	1-136-177-00	FILM	1uF	5%	50V
C3166	1-112-831-11	ELECT	2200uF	20%	35V
				(DZ120/DZ120K)	
C3166	1-126-953-11	ELECT	2200uF	20%	35V
				(DZ110/DZ111)	
C3167	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3168	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3169	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3170	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3171	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
					(DZ120K)
C3171	1-164-505-11	CERAMIC CHIP	2.2uF		16V
				(EXCEPT DZ120K)	
C3172	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3200	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3203	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3205	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3206	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3207	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V

Ref. No.	Part No.	Description			Remark
C3208	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3209	1-112-246-11	ELECT	100uF	20%	35V
C3212	1-112-246-11	ELECT	100uF	20%	35V
C3213	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3214	1-136-177-00	FILM	1uF	5%	50V
C3215	1-136-177-00	FILM	1uF	5%	50V
C3216	1-112-831-11	ELECT	2200uF	20%	35V (DZ120/DZ120K)
C3216	1-126-953-11	ELECT	2200uF	20%	35V (DZ110/DZ111)
C3217	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3218	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3219	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3220	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3221	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3223	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3250	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3253	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3254	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3255	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3256	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3257	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3258	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3259	1-112-246-11	ELECT	100uF	20%	35V
C3262	1-112-246-11	ELECT	100uF	20%	35V
C3263	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3264	1-136-177-00	FILM	1uF	5%	50V
C3265	1-136-177-00	FILM	1uF	5%	50V
C3266	1-112-831-11	ELECT	2200uF	20%	35V (DZ120/DZ120K)
C3266	1-126-953-11	ELECT	2200uF	20%	35V (DZ110/DZ111)
C3267	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3268	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3269	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3270	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3271	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3272	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3273	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3300	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3303	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3304	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3305	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3306	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3307	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3308	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3309	1-112-246-11	ELECT	100uF	20%	35V
C3312	1-112-246-11	ELECT	100uF	20%	35V
C3313	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3314	1-136-177-00	FILM	1uF	5%	50V
C3315	1-136-177-00	FILM	1uF	5%	50V
C3316	1-112-831-11	ELECT	2200uF	20%	35V (DZ120/DZ120K)
C3316	1-126-953-11	ELECT	2200uF	20%	35V (DZ110/DZ111)
C3317	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3318	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3319	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3320	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3321	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3322	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3400	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3403	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3405	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3406	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3407	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3408	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3409	1-112-246-11	ELECT	100uF	20%	35V
C3412	1-112-246-11	ELECT	100uF	20%	35V
C3413	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3414	1-136-177-00	FILM	1uF	5%	50V
C3415	1-136-177-00	FILM	1uF	5%	50V
C3416	1-112-831-11	ELECT	2200uF	20%	35V (DZ120/DZ120K)
C3416	1-126-953-11	ELECT	2200uF	20%	35V (DZ110/DZ111)
C3417	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3418	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3419	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3420	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3421	1-117-370-11	CERAMIC CHIP	10uF		10V
C3422	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3423	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3551	1-126-960-11	ELECT	1uF	20%	50V
C3552	1-126-964-11	ELECT	10uF	20%	50V
C3555	1-163-038-91	CERAMIC CHIP	0.1uF		25V (EXCEPT DZ120K)

< CONNECTOR >

	CN501	1-506-469-11	PIN, CONNECTOR 4P
	CN507	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P
	CN509	1-784-380-51	FFC/CONNECTOR, FPC (LIF (NON-ZIF)) 23P
	CN510	1-784-368-11	CONNECTOR, FFC/FPC 9P
*	CN515	1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P
	CN1101	1-815-763-32	CONNECTOR, FFC/FPC 24P
*	CN1105	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
*	CN1201	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
	CN1202	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P
	CN1301	1-779-281-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P
	CN1302	1-779-275-11	CONNECTOR, FFC (LIF (NON-ZIF)) 7P
	CN3000	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P
	CN3001	1-506-469-11	PIN, CONNECTOR 4P (DZ110/DZ111/DZ120)
	CN3002	1-785-101-11	PIN, CONNECTOR (3.96mm PITCH) 3P

< DIODE >

D503	6-501-193-01	DIODE 1SS355WTE-17
D504	6-501-193-01	DIODE 1SS355WTE-17
D505	6-501-193-01	DIODE 1SS355WTE-17
D2001	8-719-058-24	DIODE RB501V-40TE-17
D3071	6-501-193-01	DIODE 1SS355WTE-17
D3072	6-501-193-01	DIODE 1SS355WTE-17
D3073	6-501-193-01	DIODE 1SS355WTE-17
D3111	6-500-260-01	DIODE P6SMB39AT3
D3112	6-500-260-01	DIODE P6SMB39AT3

Ref. No.	Part No.	Description	Remark
D3151	6-500-260-01	DIODE P6SMB39AT3	
D3152	6-500-260-01	DIODE P6SMB39AT3	
D3201	6-500-260-01	DIODE P6SMB39AT3	
D3202	6-500-260-01	DIODE P6SMB39AT3	
D3251	6-500-260-01	DIODE P6SMB39AT3	
D3252	6-500-260-01	DIODE P6SMB39AT3	
D3301	6-500-260-01	DIODE P6SMB39AT3	
D3302	6-500-260-01	DIODE P6SMB39AT3	
D3401	6-500-260-01	DIODE P6SMB39AT3	
D3402	6-500-260-01	DIODE P6SMB39AT3	
D3551	6-501-193-01	DIODE 1SS355WTE-17	
D3552	6-501-193-01	DIODE 1SS355WTE-17	
		< GROUND TERMINAL BOARD >	
EB903	1-537-770-21	TERMINAL BOARD, GROUND	
EB1001	1-537-770-21	TERMINAL BOARD, GROUND	
EB1002	1-537-770-21	TERMINAL BOARD, GROUND	
EB1003	1-537-770-21	TERMINAL BOARD, GROUND	
EB1004	1-537-770-21	TERMINAL BOARD, GROUND	
EB3001	1-537-770-21	TERMINAL BOARD, GROUND	
EB3002	1-537-770-21	TERMINAL BOARD, GROUND	
EB3003	1-537-770-21	TERMINAL BOARD, GROUND	
EB3004	1-537-770-21	TERMINAL BOARD, GROUND	
EB3005	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB500	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB501	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB502	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB503	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB504	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB505	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB506	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB507	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB508	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB509	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1106	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB1108	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB1111	1-414-226-21	INDUCTOR, FERRITE BEAD	
FB3051	1-216-295-91	SHORT CHIP 0	
		< FLUORESCENT INDICATOR >	
FL501	1-234-177-21	FILTER, CHIP EMI	
FL502	1-234-177-21	FILTER, CHIP EMI	
FL503	1-233-893-21	FILTER, CHIP EMI	
FL1101	1-234-177-21	FILTER, CHIP EMI	
FL1104	1-234-177-21	FILTER, CHIP EMI	
FL1105	1-234-177-21	FILTER, CHIP EMI	
FL1106	1-234-177-21	FILTER, CHIP EMI	
FL1107	1-234-177-21	FILTER, CHIP EMI	
FL1108	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC501	6-806-015-01	IC M30622MEP-A49FPU0 (DZ110/DZ111/DZ120)	
IC501	6-806-589-01	IC M30622MEP-A76FPU0 (DZ120K)	
IC502	6-702-302-01	IC TK11133CSCL-G	
IC511	6-708-922-01	IC PST3635NR	
IC516	6-703-547-01	IC TA7805LS	
IC1101	6-707-535-01	IC CXD9849R	
IC1102	6-806-744-01	IC MX29LV320CBTC70-OBA1-0603UC (DZ120: US, CND)	
IC1102	6-806-745-01	IC MX29LV320CBTC70-OBA1-0603CE (DZ110/DZ111/DZ120: AUS, RU)	
IC1102	6-806-746-01	IC MX29LV320CBTC70-OBA1-0603GA (DZ120: KR)	
IC1102	6-806-817-01	IC MX29LV320CBTC70-OBA2-0604UC (DZ120K: E32, MX, AR)	
IC1102	6-806-818-01	IC MX29LV320CBTC70-OBA2-0604CE (DZ120K: E3, E12, RU, EA)	
IC1102	6-806-819-01	IC MX29LV320CBTC70-OBA2-0604GA (DZ120K: SP,TW)	
☆ IC1103	not supplied	IC BR24L64F-WE2	
IC1104	6-709-370-01	IC A2V64S40CTP-G75	
IC1105	6-702-302-01	IC TK11133CSCL-G	
IC1107	6-702-302-01	IC TK11133CSCL-G	
IC1109	6-707-485-01	IC NJM2885DL1-18 (TE2)	
IC1201	6-704-524-01	IC FAN8036L	
IC2200	6-707-608-01	IC PCM1803DBR	
IC3001	8-759-710-97	IC NJM4565M-D (DZ110/DZ111/DZ120)	
IC3003	8-759-680-48	IC TC7WH157FK (TE85R)	
IC3010	6-705-979-01	IC CXD9788AR	
IC3020	6-705-979-01	IC CXD9788AR	
IC3030	6-705-979-01	IC CXD9788AR	
IC3050	6-702-300-01	IC TK11118CSCL-G	
IC3051	8-759-649-50	IC SN74AHC1GU04DCKR	
IC3100	6-708-921-01	IC CXD9883M	
IC3150	6-708-921-01	IC CXD9883M	
IC3200	6-708-921-01	IC CXD9883M	
IC3250	6-708-921-01	IC CXD9883M	
IC3300	6-708-921-01	IC CXD9883M	
IC3400	6-708-921-01	IC CXD9883M	
		< SHORT >	
JC501	1-216-864-11	SHORT CHIP 0 (DZ110)	
JC502	1-216-864-11	SHORT CHIP 0 (DZ111)	
JC503	1-216-864-11	SHORT CHIP 0 (DZ120)	
JC504	1-216-864-11	SHORT CHIP 0 (DZ120K)	
JC511	1-216-864-11	SHORT CHIP 0 (DZ120K: SP, TW)	
JC512	1-216-864-11	SHORT CHIP 0 (DZ120K: E3, EA)	
JC513	1-216-864-11	SHORT CHIP 0 (DZ120: AUS)	
JC515	1-216-864-11	SHORT CHIP 0 (DZ120: US, CND)	
JC516	1-216-864-11	SHORT CHIP 0 (DZ120: KR)	
JC517	1-216-864-11	SHORT CHIP 0 (DZ120K: E32, MX)	
JC518	1-216-864-11	SHORT CHIP 0 (DZ120K: AR)	
JC520	1-216-864-11	SHORT CHIP 0 (RU)	
JC521	1-216-864-11	SHORT CHIP 0 (DZ110/DZ111)	
JC522	1-216-864-11	SHORT CHIP 0 (DZ120K: E12)	
		< COIL >	
L2200	1-414-754-11	INDUCTOR 10uH	
L2201	1-216-295-91	SHORT CHIP 0	
L3000	1-469-527-91	INDUCTOR 47uH	
L3051	1-414-754-11	INDUCTOR 10uH	
L3052	1-414-754-11	INDUCTOR 10uH	
L3053	1-414-754-11	INDUCTOR 10uH	

☆ New part of EEP ROM (IC1103) on the MAIN board cannot be used. Therefore, if the mounted MAIN board (A-1144-739-A, etc.) is replaced, exchange new EEP ROM (IC1103) with that used before the replacement.

MAIN

Ref. No.	Part No.	Description			Remark
L3054	1-412-939-11	INDUCTOR	1uH		
L3111	1-456-680-11	INDUCTOR	10uH		
L3112	1-456-680-11	INDUCTOR	10uH		
L3151	1-456-680-11	INDUCTOR	10uH		
L3152	1-456-680-11	INDUCTOR	10uH		
L3201	1-456-680-11	INDUCTOR	10uH		
L3202	1-456-680-11	INDUCTOR	10uH		
L3251	1-456-680-11	INDUCTOR	10uH		
L3252	1-456-680-11	INDUCTOR	10uH		
L3301	1-456-680-11	INDUCTOR	10uH		
L3302	1-456-680-11	INDUCTOR	10uH		
L3401	1-456-680-11	INDUCTOR	10uH		
L3402	1-456-680-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q502	6-550-718-01	TRANSISTOR	RSR025N03TL		
Q506	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q1101	6-550-008-01	TRANSISTOR	UM6K1N-TN		
Q1102	6-550-653-01	TRANSISTOR	QST8TR		
Q1103	8-729-901-00	TRANSISTOR	DTC124EK		
Q3000	8-729-142-48	TRANSISTOR	2SD1616-TP-LK		
Q3001	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3002	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q3081	8-729-027-23	TRANSISTOR	DTA114EKA-T146		(DZ110/DZ111/DZ120)
Q3101	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3102	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3151	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3152	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3201	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3202	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3251	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3252	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3301	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3302	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3401	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3402	8-729-600-22	TRANSISTOR	2SA1235-F (DZ120K)		
Q3551	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R506	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R507	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R513	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R515	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R519	1-216-809-11	METAL CHIP	100	5% 1/10W	
R524	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R535	1-216-821-11	METAL CHIP	1K	5% 1/10W	(DZ110/DZ111/DZ120K)
R536	1-216-821-11	METAL CHIP	1K	5% 1/10W	(DZ110/DZ111/DZ120K)
R577	1-216-821-11	METAL CHIP	1K	5% 1/10W	(DZ110)
R577	1-216-823-11	METAL CHIP	1.5K	5% 1/10W	(DZ111)
R577	1-216-827-11	METAL CHIP	3.3K	5% 1/10W	(DZ120K)
R577	1-218-867-11	METAL CHIP	6.8K	0.5% 1/10W	(DZ120)
R585	1-216-809-11	METAL CHIP	100	5% 1/10W	
R586	1-216-809-11	METAL CHIP	100	5% 1/10W	
R587	1-216-809-11	METAL CHIP	100	5% 1/10W	
R588	1-216-809-11	METAL CHIP	100	5% 1/10W	
R589	1-216-809-11	METAL CHIP	100	5% 1/10W	
R590	1-216-809-11	METAL CHIP	100	5% 1/10W	
R591	1-216-809-11	METAL CHIP	100	5% 1/10W	
R592	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R593	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R594	1-216-809-11	METAL CHIP	100	5% 1/10W	
R595	1-216-809-11	METAL CHIP	100	5% 1/10W	
R596	1-216-821-11	METAL CHIP	1K	5% 1/10W	(DZ120K: SP, TW)
R596	1-216-833-11	METAL CHIP	10K	5% 1/10W	(DZ120K: E3, EA)
R596	1-216-835-11	METAL CHIP	15K	5% 1/10W	(DZ120: AUS)
R596	1-216-841-11	METAL CHIP	47K	5% 1/10W	(DZ120: US, CND, KR, RU/DZ120K: E32, MX, AR, RU)
R596	1-218-867-11	METAL CHIP	6.8K	0.5% 1/10W	(DZ120K: E12)
R597	1-216-809-11	METAL CHIP	100	5% 1/10W	
R598	1-216-809-11	METAL CHIP	100	5% 1/10W	
R601	1-216-809-11	METAL CHIP	100	5% 1/10W	
R608	1-216-809-11	METAL CHIP	100	5% 1/10W	
R612	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R614	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R616	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R620	1-216-809-11	METAL CHIP	100	5% 1/10W	
R622	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R624	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R628	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R656	1-216-864-11	SHORT CHIP	0		
R657	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R659	1-216-845-11	METAL CHIP	100K	5% 1/10W	
R662	1-216-841-11	METAL CHIP	47K	5% 1/10W	
R673	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R692	1-216-809-11	METAL CHIP	100	5% 1/10W	
R693	1-216-809-11	METAL CHIP	100	5% 1/10W	
R702	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R703	1-216-809-11	METAL CHIP	100	5% 1/10W	
R704	1-216-809-11	METAL CHIP	100	5% 1/10W	
R707	1-216-809-11	METAL CHIP	100	5% 1/10W	
R708	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R709	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R710	1-216-809-11	METAL CHIP	100	5% 1/10W	
R713	1-216-864-11	SHORT CHIP	0		
R717	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R719	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R720	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R725	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R726	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R727	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R728	1-216-821-11	METAL CHIP	1K	5% 1/10W	
R729	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R730	1-216-829-11	METAL CHIP	4.7K	5% 1/10W	
R733	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R739	1-216-833-11	METAL CHIP	10K	5% 1/10W	
R741	1-216-833-11	METAL CHIP	10K	5% 1/10W	

Ref. No.	Part No.	Description			Remark
R742	1-216-833-11	METAL CHIP	10K	5%	1/10W
R744	1-216-833-11	METAL CHIP	10K	5%	1/10W
R746	1-216-833-11	METAL CHIP	10K	5%	1/10W
R755	1-216-821-11	METAL CHIP	1K	5%	1/10W
R756	1-216-821-11	METAL CHIP	1K	5%	1/10W
R760	1-216-809-11	METAL CHIP	100	5%	1/10W
R761	1-216-809-11	METAL CHIP	100	5%	1/10W
R762	1-216-809-11	METAL CHIP	100	5%	1/10W
R763	1-216-809-11	METAL CHIP	100	5%	1/10W
R764	1-216-809-11	METAL CHIP	100	5%	1/10W
R765	1-216-809-11	METAL CHIP	100	5%	1/10W
R774	1-216-821-11	METAL CHIP	1K	5%	1/10W
R775	1-216-841-11	METAL CHIP	47K	5%	1/10W
R789	1-216-809-11	METAL CHIP	100	5%	1/10W
R790	1-216-809-11	METAL CHIP	100	5%	1/10W
R791	1-216-809-11	METAL CHIP	100	5%	1/10W
R792	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (RU)
R792	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (DZ110/DZ111)
R792	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K: E32, MX)
R792	1-216-835-11	METAL CHIP	15K	5%	1/10W (DZ120: KR)
R792	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ120: US, CND)
R792	1-216-841-11	METAL CHIP	47K	5%	1/10W (DZ120: AUS/DZ120K: E3, E12, EA)
R792	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (DZ120K: AR)
R793	1-216-841-11	METAL CHIP	47K	5%	1/10W (DZ111/DZ120/DZ120K)
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1111	1-216-809-11	METAL CHIP	100	5%	1/10W
R1112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1118	1-216-801-11	METAL CHIP	22	5%	1/10W
R1120	1-216-801-11	METAL CHIP	22	5%	1/10W
R1121	1-216-801-11	METAL CHIP	22	5%	1/10W
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1126	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1132	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1141	1-218-916-11	METAL CHIP	750K	0.5%	1/10W
R1142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1144	1-216-864-11	SHORT CHIP	0		
R1145	1-216-864-11	SHORT CHIP	0		
R1146	1-216-805-11	METAL CHIP	47	5%	1/10W
R1147	1-216-864-11	SHORT CHIP	0		
R1148	1-216-864-11	SHORT CHIP	0		
R1151	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1152	1-216-864-11	SHORT CHIP	0		
R1153	1-216-864-11	SHORT CHIP	0		
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-809-11	METAL CHIP	100	5%	1/10W
R1159	1-216-805-11	METAL CHIP	47	5%	1/10W
R1160	1-216-864-11	SHORT CHIP	0		
R1161	1-216-864-11	SHORT CHIP	0		
R1164	1-216-864-11	SHORT CHIP	0		
R1166	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ120K)
R1168	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1169	1-216-809-11	METAL CHIP	100	5%	1/10W (DZ120K)
R1171	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ120K)
R1171	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
R1176	1-216-864-11	SHORT CHIP	0		
R1180	1-216-805-11	METAL CHIP	47	5%	1/10W
R1181	1-216-805-11	METAL CHIP	47	5%	1/10W
R1182	1-216-805-11	METAL CHIP	47	5%	1/10W
R1191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R1205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1222	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1227	1-216-864-11	SHORT CHIP	0		
R1228	1-216-864-11	SHORT CHIP	0		
R1230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R1231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R1233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R1234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1236	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1237	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1238	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1243	1-216-809-11	METAL CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R1246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1255	1-216-864-11	SHORT CHIP	0		
R2101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2109	1-216-864-11	SHORT CHIP	0		
R2110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R2111	1-216-821-11	METAL CHIP	1K	5%	1/10W (DZ110/DZ111)
R2114	1-216-809-11	METAL CHIP	100	5%	1/10W
R2115	1-216-809-11	METAL CHIP	100	5%	1/10W
R2120	1-216-864-11	SHORT CHIP	0		
R2121	1-216-864-11	SHORT CHIP	0		
R2122	1-216-864-11	SHORT CHIP	0		
R2123	1-216-864-11	SHORT CHIP	0		
R2124	1-216-864-11	SHORT CHIP	0		
R2125	1-216-864-11	SHORT CHIP	0		
R2126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2133	1-216-864-11	SHORT CHIP	0		
R2134	1-216-864-11	SHORT CHIP	0		
R2150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2161	1-216-864-11	SHORT CHIP	0		
R2168	1-216-815-11	METAL CHIP	330	5%	1/10W
R2176	1-216-864-11	SHORT CHIP	0		
R2200	1-216-809-11	METAL CHIP	100	5%	1/10W
R2202	1-216-817-11	METAL CHIP	470	5%	1/10W
R2203	1-216-817-11	METAL CHIP	470	5%	1/10W
R2211	1-216-809-11	METAL CHIP	100	5%	1/10W
R2212	1-216-809-11	METAL CHIP	100	5%	1/10W
R2213	1-216-809-11	METAL CHIP	100	5%	1/10W
R2214	1-216-809-11	METAL CHIP	100	5%	1/10W
R2306	1-216-864-11	SHORT CHIP	0		
R2307	1-216-864-11	SHORT CHIP	0		
R2308	1-216-864-11	SHORT CHIP	0		
R2309	1-216-864-11	SHORT CHIP	0		
R2310	1-216-864-11	SHORT CHIP	0		
R2311	1-216-864-11	SHORT CHIP	0		
R2314	1-216-864-11	SHORT CHIP	0		
R2315	1-216-864-11	SHORT CHIP	0		
R2316	1-216-864-11	SHORT CHIP	0		
R2317	1-216-864-11	SHORT CHIP	0		
R2318	1-216-864-11	SHORT CHIP	0		
R2319	1-216-864-11	SHORT CHIP	0		
R2506	1-216-864-11	SHORT CHIP	0		
R2546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2553	1-216-864-11	SHORT CHIP	0		
R2554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2555	1-216-833-11	METAL CHIP	10K	5%	1/10W (DZ110/DZ111)
R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3003	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3004	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R3006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3011	1-216-817-11	METAL CHIP	470	5%	1/10W
R3012	1-216-817-11	METAL CHIP	470	5%	1/10W
R3013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3014	1-216-809-11	METAL CHIP	100	5%	1/10W
R3015	1-216-809-11	METAL CHIP	100	5%	1/10W
R3017	1-216-809-11	METAL CHIP	100	5%	1/10W
R3021	1-216-817-11	METAL CHIP	470	5%	1/10W
R3022	1-216-817-11	METAL CHIP	470	5%	1/10W
R3023	1-216-809-11	METAL CHIP	100	5%	1/10W
R3024	1-216-809-11	METAL CHIP	100	5%	1/10W
R3026	1-216-809-11	METAL CHIP	100	5%	1/10W
R3031	1-216-817-11	METAL CHIP	470	5%	1/10W
R3032	1-216-817-11	METAL CHIP	470	5%	1/10W
R3033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3034	1-216-809-11	METAL CHIP	100	5%	1/10W
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-809-11	METAL CHIP	100	5%	1/10W
R3050	1-216-864-11	SHORT CHIP	0 (DZ110/DZ111/DZ120)		
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W
R3053	1-216-809-11	METAL CHIP	100	5%	1/10W
R3054	1-216-801-11	METAL CHIP	22	5%	1/10W
R3055	1-216-809-11	METAL CHIP	100	5%	1/10W
R3057	1-216-809-11	METAL CHIP	100	5%	1/10W
R3059	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3061	1-216-864-11	SHORT CHIP	0		
R3062	1-216-809-11	METAL CHIP	100	5%	1/10W
R3063	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3064	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3065	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W
R3067	1-216-809-11	METAL CHIP	100	5%	1/10W
R3068	1-216-809-11	METAL CHIP	100	5%	1/10W
R3069	1-216-809-11	METAL CHIP	100	5%	1/10W
R3070	1-216-809-11	METAL CHIP	100	5%	1/10W
R3071	1-216-809-11	METAL CHIP	100	5%	1/10W
R3072	1-216-809-11	METAL CHIP	100	5%	1/10W
R3073	1-216-809-11	METAL CHIP	100	5%	1/10W
R3075	1-216-809-11	METAL CHIP	100	5%	1/10W
R3076	1-216-809-11	METAL CHIP	100	5%	1/10W
R3077	1-216-809-11	METAL CHIP	100	5%	1/10W
R3078	1-216-809-11	METAL CHIP	100	5%	1/10W
R3079	1-216-809-11	METAL CHIP	100	5%	1/10W
R3080	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3085	1-216-839-11	METAL CHIP	33K	5%	1/10W (DZ110/DZ111/DZ120)
R3086	1-216-839-11	METAL CHIP	33K	5%	1/10W (DZ110/DZ111/DZ120)
R3087	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)

Ref. No.	Part No.	Description			Remark
R3088	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3089	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3090	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3091	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3092	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3093	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3094	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3095	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (DZ110/DZ111/DZ120)
R3096	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (DZ110/DZ111/DZ120)
R3097	1-216-809-11	METAL CHIP	100	5%	1/10W
R3098	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3099	1-216-837-11	METAL CHIP	22K	5%	1/10W (DZ110/DZ111/DZ120)
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-797-11	METAL CHIP	10	5%	1/10W
R3104	1-216-864-11	SHORT CHIP	0		
R3107	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3115	1-216-797-11	METAL CHIP	10	5%	1/10W
R3116	1-216-797-11	METAL CHIP	10	5%	1/10W
R3119	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3120	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3123	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3125	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3126	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3127	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3151	1-216-809-11	METAL CHIP	100	5%	1/10W
R3152	1-216-809-11	METAL CHIP	100	5%	1/10W
R3153	1-216-797-11	METAL CHIP	10	5%	1/10W
R3154	1-216-864-11	SHORT CHIP	0		
R3157	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3165	1-216-797-11	METAL CHIP	10	5%	1/10W
R3166	1-216-797-11	METAL CHIP	10	5%	1/10W
R3169	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3170	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3173	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3174	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3175	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3176	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3177	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3201	1-216-809-11	METAL CHIP	100	5%	1/10W
R3202	1-216-809-11	METAL CHIP	100	5%	1/10W
R3203	1-216-797-11	METAL CHIP	10	5%	1/10W
R3204	1-216-864-11	SHORT CHIP	0		
R3207	1-216-835-11	METAL CHIP	15K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3215	1-216-797-11	METAL CHIP	10	5%	1/10W
R3216	1-216-797-11	METAL CHIP	10	5%	1/10W
R3219	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3220	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3225	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3226	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3227	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3251	1-216-809-11	METAL CHIP	100	5%	1/10W
R3252	1-216-809-11	METAL CHIP	100	5%	1/10W
R3253	1-216-797-11	METAL CHIP	10	5%	1/10W
R3254	1-216-864-11	SHORT CHIP	0		
R3257	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3265	1-216-797-11	METAL CHIP	10	5%	1/10W
R3266	1-216-797-11	METAL CHIP	10	5%	1/10W
R3269	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3270	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3275	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3276	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3277	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3301	1-216-809-11	METAL CHIP	100	5%	1/10W
R3302	1-216-809-11	METAL CHIP	100	5%	1/10W
R3303	1-216-797-11	METAL CHIP	10	5%	1/10W
R3304	1-216-864-11	SHORT CHIP	0		
R3307	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3315	1-216-797-11	METAL CHIP	10	5%	1/10W
R3316	1-216-797-11	METAL CHIP	10	5%	1/10W
R3319	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3320	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3321	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3325	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3326	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3327	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3401	1-216-809-11	METAL CHIP	100	5%	1/10W
R3402	1-216-809-11	METAL CHIP	100	5%	1/10W
R3403	1-216-797-11	METAL CHIP	10	5%	1/10W
R3404	1-216-864-11	SHORT CHIP	0		
R3407	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3415	1-216-797-11	METAL CHIP	10	5%	1/10W
R3416	1-216-797-11	METAL CHIP	10	5%	1/10W
R3419	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3420	1-216-136-00	RES-CHIP	2.7	5%	1/8W
R3421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3423	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3425	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3426	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R3427	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3553	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3555	1-216-864-11	SHORT CHIP	0		
R4002	1-216-864-11	SHORT CHIP	0		
		< NETWORK RESISTOR >			
RB501	1-233-576-11	RES, CHIP NETWORK	100 (3216)		
RB1103	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1104	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1105	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1106	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1107	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1108	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1111	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1112	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1113	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1114	1-234-372-11	RES, NETWORK	100 (1005X4)		
RB1115	1-234-372-11	RES, NETWORK	100 (1005X4)		
		< VIBRATOR >			
X502	1-795-058-21	VIBRATOR, CERAMIC 5MHz			
X1102	1-813-539-11	QUARTZ CRYSTAL UNIT 27MHz			
X3051	1-795-660-21	QUARTZ CRYSTAL UNIT 49.152MHz			
**********					
		MS-203 BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CN001	1-815-412-11	CONNECTOR, FFC/FPC 5P			
		< SWITCH >			
S001	1-786-693-11	SWITCH, DETECTION			
**********					
	A-1144-737-A	POWER BOARD, COMPLETE (DZ110/DZ111)			
	A-1144-950-A	POWER BOARD, COMPLETE (DZ120: KR, RU)			
	A-1146-005-A	POWER BOARD, COMPLETE (DZ120: US, CND/DZ120K: TW)			
	A-1146-091-A	POWER BOARD, COMPLETE (DZ120K: MX)			
	A-1159-363-A	POWER BOARD, COMPLETE (DZ120K: E32)			
	A-1177-691-A	POWER BOARD, COMPLETE (DZ120K: RU)			
	A-1178-742-A	POWER BOARD, COMPLETE (DZ120: AUS/DZ120K: EA, E3, E12, SP, AR)			
		**********			
		< CAPACITOR >			
⚠C901	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C902	1-165-529-11	MYLAR	0.22uF	10	275V
⚠C903	1-112-330-11	ELECT (BLOCK)	1000uF	20%	200V (DZ120: US, CND/DZ120K: TW)
⚠C903	1-112-331-11	ELECT (BLOCK)	1000uF	20%	250V (DZ120K: MX)
⚠C903	1-112-332-11	ELECT (BLOCK)	330uF	20%	400V (DZ110/DZ111)
⚠C903	1-112-333-11	ELECT (BLOCK)	330uF	20%	450V (DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C905	1-112-334-91	FILM	0.01uF	5%	400V (DZ120: US, CND/DZ120K: MX, TW)
⚠C905	1-112-335-91	FILM	0.0033uF	5%	400V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C906	1-117-815-31	FILM	1000PF	3%	1.5KV (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C906	1-117-828-31	FILM	3300PF	3%	1.5KV (DZ120: US, CND/DZ120K: MX, TW)
⚠C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C907	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V (DZ120: US, CND/DZ120K: MX, TW)
⚠C908	1-107-909-11	ELECT	47uF	20%	50V
⚠C909	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
⚠C910	1-107-906-11	ELECT	10uF	20%	50V (DZ120: US, CND/DZ120K: MX, TW)
⚠C910	1-126-965-91	ELECT	22uF	20%	50V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, RU, SP, AR, EA)
⚠C910	1-107-909-11	ELECT	47uF	20%	50V (DZ120K: E32)
⚠C911	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C913	1-117-693-11	CERAMIC	100PF	10%	250V
⚠C918	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C920	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C922	1-128-560-11	ELECT	22uF	20%	100V
⚠C923	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C924	1-126-961-11	ELECT	2.2uF	20%	50V
⚠C925	1-107-974-81	CERAMIC	47PF	5%	2KV
⚠C928	1-113-896-11	CERAMIC	220PF	10%	250V (DZ120: US, CND/DZ120K: MX, TW)
⚠C928	1-113-900-11	CERAMIC	470PF	10%	250V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C929	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
⚠C930	1-117-693-11	CERAMIC	100PF	10%	250V
C932	1-100-924-21	ELECT	2200uF	20%	35V
C933	1-100-924-21	ELECT	2200uF	20%	35V
C934	1-112-831-11	ELECT	2200uF	20%	35V (DZ120/DZ120K)
C934	1-126-953-11	ELECT	2200uF	20%	35V (DZ110/DZ111)
C935	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C936	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C937	1-100-756-91	CERAMIC CHIP	0.047uF		50V
⚠C938	1-113-898-11	CERAMIC	330PF	10%	250V (DZ120: US, CND/DZ120K: MX, TW)
⚠C938	1-117-698-51	CERAMIC	680PF	10%	250V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
C939	1-136-165-00	FILM	0.1uF	5%	50V
C940	1-128-947-31	ELECT	3300uF	20%	10V
C941	1-128-954-11	ELECT	1000uF	20%	25V
C942	1-126-941-11	ELECT	470uF	20%	25V
C943	1-126-933-11	ELECT	100uF	20%	16V
C944	1-128-951-21	ELECT	2200uF	20%	16V

Ref. No.	Part No.	Description			Remark
C945	1-126-935-11	ELECT	470uF	20%	16V
C946	1-128-950-21	ELECT	1000uF	20%	16V
C947	1-104-658-91	ELECT	100uF	20%	10V
C948	1-126-925-91	ELECT	470uF	20%	10V
C949	1-165-722-11	ELECT	100uF	20%	10V
C951	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C952	1-100-756-91	CERAMIC CHIP	0.047uF		50V
C953	1-117-214-11	CERAMIC	0.001uF	10%	2KV
C954	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C955	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C958	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C960	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
⚠C963	1-117-699-11	CERAMIC	0.001uF	99%	250V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C963	1-113-907-51	CERAMIC	0.0022uF	20%	250V (DZ120: US, CND/DZ120K: MX, TW)
⚠C964	1-117-699-11	CERAMIC	0.001uF	99%	250V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠C964	1-113-907-51	CERAMIC	0.0022uF	20%	250V (DZ120: US, CND/DZ120K: MX, TW)
C965	1-117-699-11	CERAMIC	0.001uF	99%	250V (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
C967	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C968	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C969	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C970	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C971	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C976	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
⚠D901	8-719-082-57	DIODE D5SBA60F01			
⚠D905	8-719-063-74	DIODE D1NL20U-TR2			
⚠D906	6-501-193-01	DIODE 1SS355WTE-17			
⚠D907	6-501-193-01	DIODE 1SS355WTE-17			
⚠D908	6-501-193-01	DIODE 1SS355WTE-17			
⚠D909	6-501-193-01	DIODE 1SS355WTE-17			
⚠D910	6-501-193-01	DIODE 1SS355WTE-17			
⚠D913	6-500-241-01	DIODE SARS03			
⚠D914	6-501-193-01	DIODE 1SS355WTE-17			
⚠D915	8-719-977-28	DIODE UDZSTE-1710B			
⚠D921	6-501-424-01	DIODE STO2D-140			
⚠D922	8-719-063-74	DIODE D1NL20U-TR2			
⚠D923	8-719-977-28	DIODE UDZSTE-1710B			
⚠D924	8-719-083-69	DIODE UDZSTE-1724B			
⚠D925	8-719-069-54	DIODE UDZSTE-175.1B			
⚠D926	8-719-977-28	DIODE UDZSTE-1710B			
D931	6-501-413-01	DIODE FCU20UC20			
D932	8-719-069-54	DIODE UDZSTE-175.1B			
D941	6-500-288-11	DIODE EK19LF-F7			
D942	8-719-080-53	DIODE RK36LF-B3			
D943	8-719-080-53	DIODE RK36LF-B3			
D944	6-500-288-11	DIODE EK19LF-F7			
D945	8-719-083-67	DIODE UDZSTE-1720B			
		< GROUND TERMINAL BOARD >			
EB901	1-537-770-21	TERMINAL BOARD, GROUND			
EB902	1-537-770-21	TERMINAL BOARD, GROUND			
EB903	1-537-770-21	TERMINAL BOARD, GROUND			
EB904	1-537-770-21	TERMINAL BOARD, GROUND			
		< FUSE HOLDER >			
⚠FH901	1-533-313-11	FUSE HOLDER 0A 0V			
⚠FH902	1-533-313-11	FUSE HOLDER 0A 0V			
		< FUSIBLE >			
⚠FR901	1-242-949-11	FUSIBLE	0.1	10%	1W
⚠FR902	1-242-949-11	FUSIBLE	0.1	10%	1W (DZ120: US, CND/DZ120K: E32, MX, TW)
		< IC >			
⚠IC901	6-707-741-01	IC STR-F6138-LF1352 (DZ120: US, CND/DZ120K: MX, TW)			
⚠IC901	6-707-742-01	IC STR-F6168-LF1352 (DZ110/DZ111/DZ120: AUS, KR, RU/ DZ120K: E3, E32, SP, AR)			
⚠IC921	6-707-740-01	IC STR-V153			
IC931	8-759-648-34	IC TA76431AS (TPE6)			
IC941	6-707-746-01	IC SI-3120KM-TL			
IC942	6-707-745-10	IC SI-3050KM-TL			
IC943	6-707-744-01	IC SI-3033KM-TL			
IC951	6-707-743-01	IC TA76L431S (TPE6, Q)			
		< COIL >			
L931	1-457-226-11	INDUCTOR	10uH		
L941	1-414-398-11	INDUCTOR	10uH		
L942	1-414-398-11	INDUCTOR	10uH		
L945	1-414-398-11	INDUCTOR	10uH		
L947	1-414-398-11	INDUCTOR	10uH		
L948	1-414-398-11	INDUCTOR	10uH		
L951	1-414-398-11	INDUCTOR	10uH		
		< LINE FILTER >			
⚠LF901	1-457-054-21	COIL, LINE FILTER (DZ120: US, CND/DZ120K: E12, E32, MX, AR, EA, SP, TW)			
⚠LF901	1-457-079-11	COIL, LINE FILTER (DZ110/DZ111/DZ120: RU, KR, AUS/DZ120K: RU, E3)			
⚠LF902	1-457-054-21	COIL, LINE FILTER (DZ120: US, CND/DZ120K: E12, E32, MX, AR, EA, SP, TW)			
⚠LF902	1-457-079-11	COIL, LINE FILTER (DZ110/DZ111/DZ120: RU, KR, AUS/DZ120K: RU, E3)			
		< IC >			
⚠PC901	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC902	6-600-438-01	IC TLP421F (D4-GR)			
⚠PC903	6-600-438-01	IC TLP421F (D4-GR)			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
⚠Q901	8-729-140-04	TRANSISTOR	2SD1616A-TP-LK		
⚠Q921	8-729-142-51	TRANSISTOR	2SD1616A-TP-LK		
Q943	1-801-806-11	TRANSISTOR	DTC144EKA		
Q945	6-550-718-01	TRANSISTOR	RSR025N03TL		
Q947	1-801-806-11	TRANSISTOR	DTC144EKA		
		< RESISTOR >			
⚠R901	1-219-759-11	METAL	1M	5%	1/2W (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠R902	1-219-769-11	METAL	3.3M	5%	1/2W (DZ120: US, CND/DZ120K: MX, TW)
⚠R903	1-215-926-00	METAL OXIDE	33K	5%	3W (DZ120: US, CND/DZ120K: MX, TW)
⚠R903	1-215-929-11	METAL OXIDE	100K	5%	3W (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠R904	1-215-926-00	METAL OXIDE	33K	5%	3W (DZ120: US, CND/DZ120K: MX, TW)
⚠R904	1-215-929-11	METAL OXIDE	100K	5%	3W (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠R905	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R906	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
⚠R907	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R908	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R909	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠R910	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
⚠R911	1-216-813-11	METAL CHIP	220	5%	1/10W
⚠R912	1-216-361-61	METAL OXIDE	0.22	5%	2W (DZ120: US, CND/DZ120K: MX, TW)
⚠R912	1-216-363-00	METAL OXIDE	0.33	5%	2W (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠R913	1-216-361-61	METAL OXIDE	0.22	5%	2W (DZ120: US, CND/DZ120K: MX, TW)
⚠R914	1-219-718-11	METAL	0.1	10%	5W (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠R914	1-243-669-11	METAL	0.05	5%	5W (DZ120: US, CND/DZ120K: MX, TW)
⚠R919	1-216-836-11	METAL CHIP	18K	5%	1/10W
⚠R922	1-216-793-11	METAL CHIP	4.7	5%	1/10W
⚠R923	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R925	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R926	1-216-855-11	METAL CHIP	680K	5%	1/10W
⚠R927	1-216-348-00	METAL OXIDE	0.82	5%	1W (DZ120: US, CND/DZ120K: MX, TW)
⚠R927	1-216-349-00	METAL OXIDE	1	5%	1W (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)
⚠R929	1-249-478-11	CARBON	2.2	5%	1/2W
R931	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W (DZ120K: E32)
R931	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W (EXCEPT DZ120K: E32)
R932	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R933	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R934	1-216-821-11	METAL CHIP	1K	5%	1/10W
R935	1-216-821-11	METAL CHIP	1K	5%	1/10W
R936	1-216-853-11	METAL CHIP	470K	5%	1/10W
R937	1-216-833-11	METAL CHIP	10K	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R941	1-216-864-11	SHORT CHIP	0		
R943	1-216-864-11	SHORT CHIP	0		
R946	1-216-811-11	METAL CHIP	150	5%	1/10W
R948	1-216-833-11	METAL CHIP	10K	5%	1/10W
R949	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R952	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R953	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R954	1-216-837-11	METAL CHIP	22K	5%	1/10W
R955	1-216-817-11	METAL CHIP	470	5%	1/10W
R956	1-216-821-11	METAL CHIP	1K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R965	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R966	1-216-821-11	METAL CHIP	1K	5%	1/10W
R967	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠R968	1-216-821-11	METAL CHIP	1K	5%	1/10W
R969	1-216-821-11	METAL CHIP	1K	5%	1/10W
R971	1-216-864-11	SHORT CHIP	0		
R974	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
		< TRANSFORMER >			
⚠T901	1-443-649-11	TRANSFORMER, CONVERTER (DZ120: US, CND/DZ120K: MX, TW)			
⚠T901	1-443-874-11	TRANSFORMER, CONVERTER (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, E32, RU, SP, AR, EA)			
⚠T902	1-443-650-11	TRANSFORMER, CONVERTER			
		< THERMISTOR >			
⚠TH901	1-805-841-21	THERMISTOR, NTC 3.0 (DZ120: US, CND/DZ120K: E32, MX, TW)			
⚠TH901	1-805-842-21	THERMISTOR, NTC 6.0 (DZ110/DZ111/DZ120: KR, AUS, RU/ DZ120K: E3, E12, RU, AR, EA)			
		< VARISTOR >			
⚠VDR901	1-805-482-11	VARISTOR			
**********					
		SPEAKER BOARD			
		**********			
		< CAPACITOR >			
C301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C314	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C315	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C316	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C317	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C318	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C319	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C320	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C321	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C322	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C323	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C324	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
* CN301	1-564-519-11	PLUG, CONNECTOR 4P			
CN302	1-818-651-11	PIN, CONNECTOR 2P			
* CN303	1-564-521-11	PLUG, CONNECTOR 6P			
		< EARTH TERMINAL >			
EP301	1-537-770-21	TERMINAL BOARD, GROUND			
EP302	1-537-770-21	TERMINAL BOARD, GROUND			
		< TERMINAL >			
TB301	1-780-344-11	TERMINAL BOARD (SPEAKER) 4P			
TB302	1-780-343-11	TERMINAL BOARD (SPEAKER) 2P			
**********					
		SW BOARD			
		*********			
		< SWITCH >			
S801	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
3	1-693-700-11	TUNER (FM/AM) (TM10SCE) (DZ110/DZ111)	
3	1-693-701-11	TUNER (FM/AM) (TM10SKR)	(DZ120: KR, RU/DZ120K: RU)
3	1-693-702-11	TUNER (FM/AM) (TM10SE)	(DZ120: AUS/EXCEPT DZ120K: RU)
3	1-693-703-11	TUNER (FM/AM) (TM10SU) (DZ120: US, CND)	
8	1-828-952-11	WIRE (FLAT TYPE)(9 CORE)(DZ120/DZ120K)	
8	1-828-962-11	WIRE (FLAT TYPE)(11 CORE)(DZ110/DZ111)	
65	1-828-384-11	WIRE (FLAT TYPE)(23 CORE)	
104	1-787-331-11	FAN, D.C.	
⚠106	1-751-520-31	CORD, POWER (DZ111)	
⚠106	1-769-079-23	CORD, POWER (DZ120: KR)	
⚠106	1-777-071-22	CORD, POWER (DZ120K: E3, EA, RU)	
⚠106	1-827-226-41	CORD, POWER (DZ120K: MX)	
⚠106	1-827-597-41	CORD, POWER (DZ120K: TW)	
⚠106	1-829-259-11	CORD, POWER (DZ120: AUS)	
⚠106	1-829-387-11	CORD, POWER (DZ120K: AR)	
⚠106	1-830-188-11	CORD, POWER	(DZ110/DZ120: RU/DZ120K: RU, E3, SP, E12, E32)
⚠106	1-830-190-11	CORD, POWER (DZ120: US, CND)	
110	1-828-292-11	WIRE (FLAT TYPE)(5 CORE)	
111	1-828-332-11	WIRE (FLAT TYPE)(13 CORE)	
112	1-828-300-11	WIRE (FLAT TYPE)(7 CORE)	
113	1-828-330-11	WIRE (FLAT TYPE)(13 CORE)	
⚠507	8-820-290-02	DEVICE, OPTICAL KHM-310CAA/C2RP	
⚠F901	1-532-325-00	FUSE (T6.3AL/250V)	(DZ110/DZ111/DZ120: RU, KR, AUS/ DZ120K: E3, SP, AR, RU, EA, E12)
⚠F901	1-532-749-11	FUSE, GLASS TUBE (8A/125V)	(DZ120: US, CND/DZ120K: MX, TW)
⚠F901	1-533-949-31	FUSE, CYLINDRICAL(TIME LUG)	(T8AL/250V) (DZ120K: E32)

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2006.01	New
1.1	2006.03	D490 and D491 parts added on JACK board (DZ110/DZ111/D120 models) (ECN-ECB44112)
		C383, R335, R391, R393 and R399 parts changed on I/O board (DZ120K model) C348 part changed on I/O board (DZ120/DZ120K model) (ECN-ECB45723)
		C598 part changed on MAIN board (ECN-ECB48747)
		Addition of E32 (110-240 V AC area in E model) model and Argentina model (DZ120K model)
1.2	2006.04	Addition of Korean model for HCD-DZ120 Addition of Saudi Arabia model, Russian model and E12 (220-240V AC area in E model) model for HCD-DZ120K
		Addition of Parts No. for Ref. No.114 and 115 (SPM-06016)
1.3	2006.06	Addition of Russian model for HCD-DZ120 Addition of Taiwan model for HCD-DZ120K
1.4	2006.08	Correction of Test mode (ENG-06006)
		Change of Parts for IC1102 (ECN-ECB64174)

SS-CT51/TS51/ WS51/WS52

SERVICE MANUAL

Ver. 1.3 2006.06

- SS-CT51 is the speaker section in DAV-DX155/DX255/DX315/DX375/DZ110/DZ118K/DZ119/DZ120/DZ120K/DZ210D/DZ410/DZ520K/DZ620K/DZ720.
- SS-TS51 is the speaker section in DAV-DX155/DX255/DX315/DX375/DZ110/DZ118K/DZ119/DZ120/DZ120K/DZ210D/DZ520K.
- SS-WS51 is the speaker section in DAV-DZ110/DZ119/DZ210D/DZ410.
- SS-WS52 is the speaker section in DAV-DX155/DZ118K/DZ120/DZ120K/DZ3K/DZ520K.

US Model
Canadian Model
SS-CT51/TS51/WS52
AEP Model
SS-CT51/TS51/WS51/WS52
UK Model
SS-CT51/TS51/WS51
E Model
Australian Model
SS-CT51/TS51/WS52

SS-WS51 SS-WS52 SS-TS51 SS-CT51

SPECIFICATIONS

Front/Surround (SS-TS51)

Speaker system	Bass reflex, magnetically shielded
Speaker unit	65 mm dia. cone type
Rated impedance	3.0 ohms
Dimensions (approx.)	92 × 151 × 83 mm (w/h/d)
Mass (approx.)	0.6 kg

Center (SS-CT51)

Speaker system	Bass reflex, magnetically shielded
Speaker unit	65 mm dia. cone type
Rated impedance	3.0 ohms
Dimensions (approx.)	260 × 94.5 × 86 mm (w/h/d)
Mass (approx.)	0.7 kg

Subwoofer (SS-WS51)

Speaker system	Bass reflex, magnetically shielded
Speaker unit	160 mm cone type
Rated impedance	3.0 ohms
Dimensions (approx.)	200 × 312 × 355 mm (w/h/d)
Mass (approx.)	5.6 kg

Subwoofer (SS-WS52)

Speaker system	Bass reflex, magnetically shielded
Speaker unit	160 mm dia. cone type
Rated impedance	3.0 ohms
Dimensions (approx.)	240 × 374 × 390 mm (w/h/d)
Mass (approx.)	6.7 kg

Design and specifications are subject to change without notice.

SPEAKER SYSTEM

9-887-017-04
2006F16-1
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Home Audio Division
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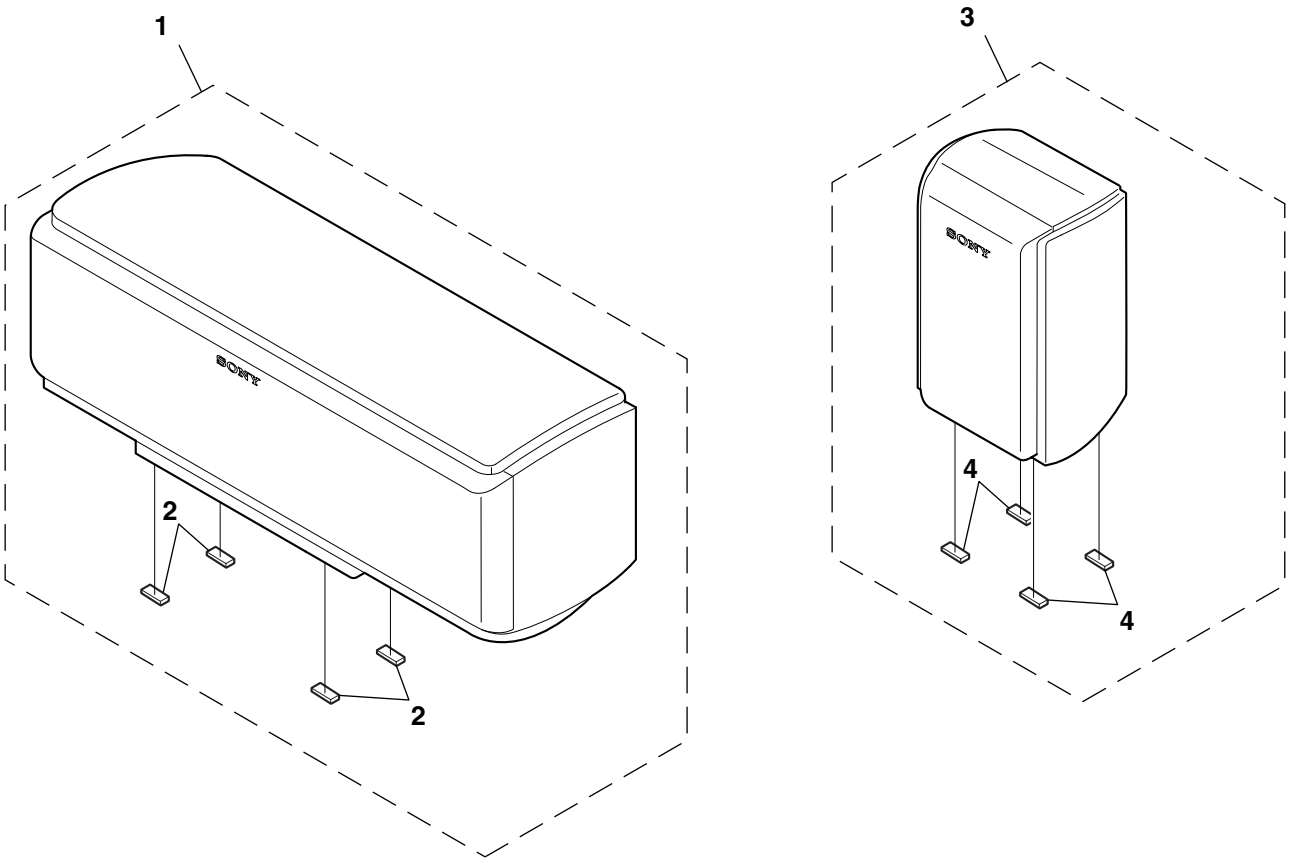
SONY

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Abbreviation
  AUS : Australian Model
  AR : Argentina model
  CND : Canadian Model
  E3 : 240V AC area in E model
  E12 : 220-240V AC area in E model
  E32 : 110-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

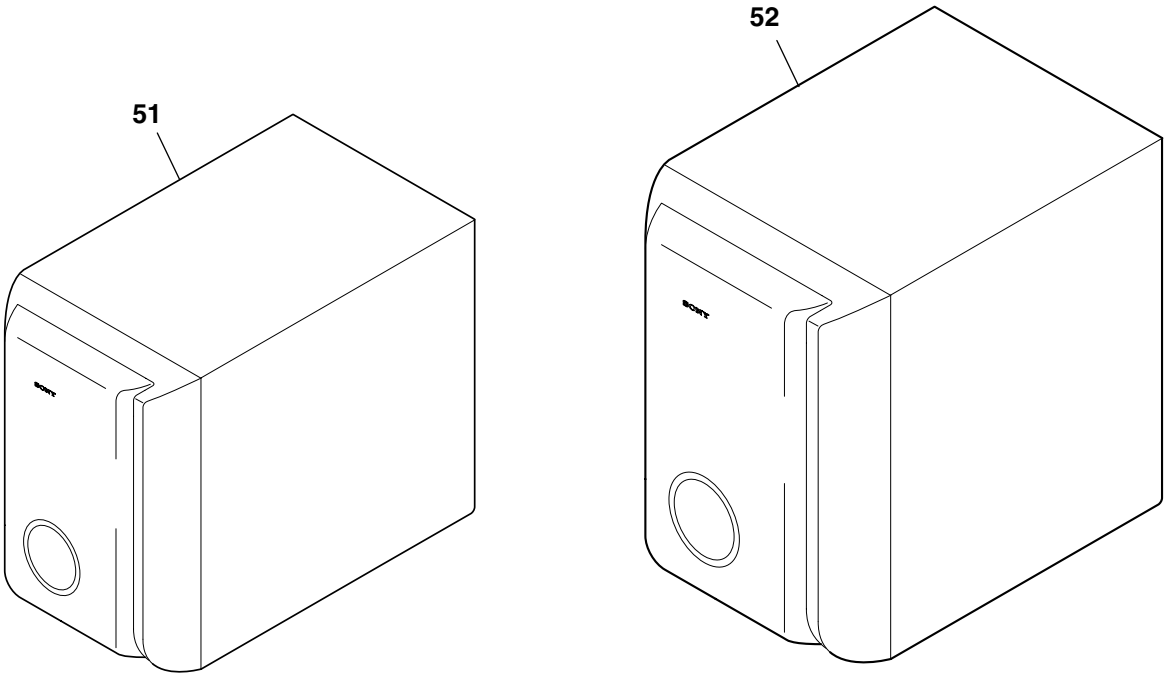
SS-CT51/TS51



Ref. No.	Part No.	Description	Remark
1	A-1144-496-A	OVERALL ASSY (SS-CT51)	(AEP, UK, E3, E12, RU, SP)
1	A-1146-458-A	OVERALL ASSY (SS-CT51)	(US, CND, KR, AUS, TW)
1	A-1146-459-A	OVERALL ASSY (SS-CT51) (AR, E32, MX)	
2	4-255-545-01	FOOT	

Ref. No.	Part No.	Description	Remark
3	A-1144-495-A	OVERALL ASSY (SS-TS51)	(AEP, E3, E12, RU, SP)
3	A-1146-449-A	OVERALL ASSY (SS-TS51)	(US, CND, KR, AUS, TW)
3	A-1146-450-A	OVERALL ASSY (SS-TS51) (AR, E32, MX)	
4	2-654-433-01	FOOT	

SS-WS51/WS52



Ref. No.	Part No.	Description	Remark
51	A-1144-497-A	OVERALL ASSY (SS-WS51) (AEP, UK)	
52	A-1146-460-A	OVERALL ASSY (SS-WS52) (E3, E12, RU, SP)	

Ref. No.	Part No.	Description	Remark
52	A-1146-461-A	OVERALL ASSY (SS-WS52) (US, CND, KR, AUS, TW)	
52	A-1146-462-A	OVERALL ASSY (SS-WS52) (MX, E32, AR)	

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2006.01	New
1.1	2006.03	Addition of E32 model (110-240V AC area in E model) and Argentina model for SS-CT51/TS51/WS52
1.2	2006.04	Addition of E12 model (220-240V AC area in E model), Russian model, Korean model and Saudi Arabia model for SS-CT51/TS51/WS52
1.3	2006.06	Addition of Taiwan model for SS-CT51/TS51/WS52